

SEQUENCE PROTOCOL

<110> metaGen

<120> Detection of Differential Gene Expressions

<130> 21914PDE

<140> 100 04 102.7-41
<141> 2000-01-31

<160> 885

<170> PatentIn Ver. 2.1

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tctaaaatca tgcgtctact tgcgtggcc aaagctgggg tccatgacca cntccaggtg 420
n

<210> 28
<211> 426
<212> DNA
<213> Homo sapiens

<400> 28
ttcgattgtg gcccattgcaaa gcaaggaggtt atggaaacaaa acgaccagca atgttagata 60
atggaaaggccgca cgnaataaaaa caatgatttgc gtcgtgtat aatggaaaacc cttggacaat 120
atccctggaa acagttgtatc ccgagctggc tgctgtggaa gtcgtgtatcc ccaagtttgc 180
taaagatcat gatgtatgtt tatttttggaa gatgtatgtat cccaaaaacgc ggactttgaa 240
ttactgtggg catatctaca caccaatatac ctgtaaaaata cgtgtacttgc tcccaatgtt 300
gtgtgtgacaga gtcgtgtatc ttcaggatatac tagcccttgc cctctatggaa ggaagttaaa 360
ccgaatttaa cagagagaat tccaggacta tgcgtgtatc cttgtataaa gccccttgc 426
gaacta

<210> 29
<211> 558
<212> DNA
<213> Homo sapiens

<400> 29
gagtgnngncg gnsgtggccgc ctggccggacct aacttagctcc aggtttagggc gagcttng 60

ggaaaagcagg	ggacttgtaaa	atactggaaa	tctgtccgga	tccaaattat	tttgcagcc	120
agatgagtaa	ccagagggca	tgaaagggttg	agaacatttg	acttccccgc	aaaccttggt	130
atagatcaat	tcccttttcgg	taggaaagga	aaggcaccaa	agaggcacaat	gagtacaaga	240
aaggcgccgg	gtggagcaat	aaattcttata	caagctcaga	agcgaacctcg	ggaagcaacc	300
tccaccccccgg	agatctccct	ggaaggcagaa	cccatagaac	tcgtggaaac	tgcgtggagat	360
gaaatttgtgg	acttcatttg	tgaatcttta	gaggcctgtgg	tggttgcatt	gactcacaat	420
gactctgttgg	tgattgtttga	cgaaaagaaga	agacccaaggaa	ggaatgcctag	gagggtgtcccc	480
caggaccatgg	ctgacagcttg	tgtggtgagc	agtgcacatg	aggagttgtc	cagggacacaga	540
gacgtatatgg	tgacttacc					558

<210> 30
<211> 477
<212> DNA
<213> *Homo sapiens*

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<400> 30
ccagtggtttt agttacatta atgagaacag aaacataaac tatgacctag gggttttctgt 60
tggatagcctt gtaattaaaga acggagaaag aacaacaaag acatatttttc dagttttttt 120
ttttcttactt taacttttgc aaacaaacaga aacttttgtt tccttactttt acatctttaaa 180
ccgatggaaaat tttaaasaga ttacattttta aataatctact catattttttc tctctcaagag 240
tccttagtttgc agttgcacttg catgtatnt gtgcatttttgc ttctttttcat ttaatgtctgt 300
actgtttttgc tgagcttttg gggactatst tgagagatgt aatggaaggaa aaggctgtgt 360
ttaatcttgcg tactgtttaa gacagtantt cadataatcaa tgatgggtttc atagagaaaac 420
taagtccat gaacctgacc tcctttatgg ctaatacgcac taagcaagaa tngaggg 477

```

<210> 31
<211> 550
<212> DNA
<213> *Homo sapiens*

<400> 31
tcagacttcc ttctgtttcgcg cagtcagctc ggctcccttcc agcaaccatg tctgacaaac 50
ccgataatggg tgagatcgag aaattcgata agtcgaaggta gaagaaaaaca gaaacgcagaag 120
agaaaaaatcc ttctgccttca aaagaaaacaa ttgaacaaga gaagcaagct ggcgaatctcg 180
aatgaggcga gggcgccaaat atgcactgtt cattccacca gcatgtccctt cttaattttac 240
ttcttttagt tgttttaactt tgtaagatgc aaagagggttg gatcaaggttt aaatcgactg 300
tgctgccttcc ttccacatcaa agaatcgaaa ctactggacca ggaaggccctc ccctgcctct 360
cccaccatcc ttagtggtcgtg gcttagcagag agggaaaaga acttgcattgt tggtaaggg 420
aaaagctggg tggggagatga tgaatngaga gaaaaatttc aagatggtcc aagatgttcc 480
ggcaggatgtt aaatggcagt tttaatcaga gtggcatttt ttttttggtt caaacaattt 540
taatttttgtt 550

<210> 32
<211> 623
<212> DNA
<213> *Homo sapiens*

<400>	32	ggcagtagca	gaacacctgc	tctcatgaaac	tccatgtatga	caggctcttg	ggtgacaatt	60
ggtgcgaccc	ttgcagccat	gattggagct	gaaatgcttg	tacactcaat	atcatatggag			120
cagancagg	cccaaagcat	ctggcttggg	tgctgcattc	tggtgtgtatg	ggtgcgagg			130
tggctccct	gacgatctta	ggggggccctc	ttctccctgag	agccgcattgg	tacaccgttg			240
gtattgtggg	aggccctctct	actgtggccca	tgtgtgcgcc	tagtgagaag	tttccgcgaac			300
atgggagcac	ccctggggagt	gggcctgggt	tttgtcttttt	gcgtcttctc	tggggcttat			360
gtttctccc	cctacctctg	tgggtctggtg	cactctgtatc	tcagtgccaa	tgtatggtgg			420
attagtttt	ttcagcatgt	ttttttctyta	tgataactcag	aaagtaatca	aacgtgcaga			480
aataaaccccc	atgtatggag	ctccaaagta	tgatccccatc	aatttcgtatg	ttganatcta			540
catngatatac	attaatatat	ttatgcgagt	tgcantaatg	ctagcaacit	gaagcaacag			600
aaagaatgaa	gtaccgcctt	ttt						623

<210> 33
<211> 464
<212> DNA
<213> Homo sapiens

<210> 34

<211> 308

<212> DNA

<213> Homo sapiens

<400> 34

<210> 35

<211> 435

<212> DNA

<213> Homo sapiens

<400> 35

<210> 36

<211> 505

<212> DNA

<213> Homo sapiens

<400> 36

ccggcaacgt	acacctttt	tattaagggg	cttctatgt	gttttgaayt	ccccatccatc	120
tgacaacatt	aatatactt	aaatacctgg	gatgtgggtc	ggtacataca	tggtgtatgc	180
tgtgtgtgt	ttataatatac	tactatattt	tgaaacaccgt	agtcatggaa	gtcccttgcaa	240
agtgtggctt	aaaatcccta	acctttttta	cttttcctcat	acatcgaagt	cagtattttt	300
atgaaggccc	ccatatgtaa	aaaagtcacc	ttgttcctgag	aggttttagc	catcatcatt	360
tttcagcggc	tgcctatctt	tattctggga	acgttttctg	ggtttactga	catcattact	420
ttgtactaag	ttttccctcg	tgctaaaaag	gctgctctgt	agcaacaact	gtctcatcccc	480
ttcaaaagctt	tttcaagcag	tttagctatt	tgaaaagggg	gctttctaac	ttcatctttt	505
caaaaataaaac	tgctgggcat	gcgtt				

<210> 37

<211> 451

<212> DNA

<213> Homo sapiens

<400> 37

tnttttttgac tttaaatgat aaacttttat tctgaatata ctgttttccgc acatggatcc
 acacaacati ttctgggatt ataaaatattt tataaacagta ttatataaaaaat ttttacaaaaaa 120
 tggggggatcc aggcttaggta attttcacaa aagtgtcaag agaacaaaaaa aaagggggaga 130
 aaagatctat tggttcacaaa agccagttgg ctttttgcat gaatgcacac catttttaata 240

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aaagtatcc taaaaggcatg atccgacact cataacaacac aacaaaaaaag acagtttac 300
taggtcacat tataaaacca actggcatct acacaagaca gatccccatt agtttcagtg 360
gaattttgaga taacitgtgt gaactagaaa taaggttagat gaagagtgt ccaatttttc 420
aaaaaacctgg aaaaaaaaaa cacacccaa n 451

```

<210> 38
<211> 245
<212> DNA
<213> *Homo sapiens*

```

<400> 38
gattttggccgt ctgttacccc taagagctac agcttagagaa acctttcacgg ggttggagaga 60
ggattttctaag gcttttctag cgtgaccctt ttcatgtatgt ctatgtccctt ttttacttta 120
tcttaatggc aagaaggcca caaagtact ttcccttttt tagctcagga aataatgttcag 180
gctccaaacca ctcttcagggc agtttaatgg acactatgtcc attgttacat gaagtgtatag 240
ataggc

```

<210> 39
<211> 403
<212> DNA
<213> *Homo sapiens*

```

<400> 39
aattcaaaagg taaaatacact gagtaaagag ctacattcaag agttctcaga agttatgaat 60
gaaatctggg ctagtgtatca aatcagaagt ggcgttccta tctcatcaaa gcccaggctgc 120
tttatttgcag gtgtgtatca caacatgtta gccgcgttgca agaccccttca agaagaataaca 180
cagttatcac aaaaaggcaca gagaatgtt gagaaacttq aaaagtccac aaagcctatt 240
gggttgtccca tcaatggatc ctgcctggga ggaggacttg aggttgccat ttcatgccaa 300
tacaaatag caacaaaaga cagaaaaaca gtatttaggtt ccctgtaaat tttgtctggggg 360
cattaccagg agcaggaggc acacaaaaggc ctgccccaaa tgg 403

```

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<210> 40  
<211> 527  
<212> DNA  
<213> Homo sapiens
```

<400>	40	ggacaatgac	ggcctccagt	gtcctcctgc	acactggaca	gaagatgcc	ctgattggtc	60
tggggacatg	gaagagttag	cctggtcagg	tgaaagcagc	cattaaacat	gccccttagcg		120	
caggctaccg	ccacattgtat	tgtgcctctg	tatatggcaa	tgaaactgag	attggggagg		180	
ccctgaagga	gagtgtgggg	tcagggcaagg	cagtcctcg	agaggagctg	tttgtgacat		240	
ccaagctgtg	gaatactaag	caccacccctg	aggatgtaga	acctggccctc	cggaagacac		300	
tggctgatct	gcaactggag	tatttggacc	tctatttgat	gcactggccc	ttaatgcctt		360	
tgaaggccccg	gagacaatcc	cctttccca	agaaaatgcgc	aatgggaact	gtcagatatg		420	
actccaactc	actattaaag	agacctggaa	ggctcttggaa	agtactggtg	gcnaaagggg		480	
cgatgtaaaq	ccctggggcn	tgtccaaactt	tcaacagtcg	gcaagat			527	

<210> 41
<211> 449
<212> DNA
<213> *Homo sapiens*

<210> 42

<211> 411
<212> DNA
<213> Homo sapiens

<400> 42
tcttcctggc caatgcgtct cgggcgcgt cagagcagt catcaacccg cgagaggc 60
gcaccggctt ccgcctgcca cccggggagt atgtgggt gcccacc ttcgagcc 120
acaaggaggc cgacgttgtt gctgcgcctt attctcagag aagagtgcg ggactgtgga 180
gctggatgac cagatccagg ccaatcccc cgtgacaa gtgcctcg aagaggagat 240
tgacgagaac tccaaggccc tcttcaggca gctggcagg gaggacatgg agatcagcgt 300
gaaggagttt cggacaatcc tcaataggat catcagcaaa cacaagacc tgccgaccaa 360
ggcttcagc taagagtgtt gccgcagcat gggtaacct catggatgtt 411

<210> 43
<211> 455
<212> DNA
<213> Homo sapiens

<400> 43
tttcattaa caactccac ggtgggaaga cagtttatca cttagtcata tacttttgg 60
cagtcactt ctgcacaatt gagatacatt tgaagatgt tctgtttgca atctgtcata 120
ttttaatcca caaacaagga gaactcccta aattgaacct gtctaaatcc agctttcctc 180
aacctccctt ctaagactta gacaaattag tcatttagag catctccctga ttaaatgttc 240
cttagaagca gagccatcaa cagagctggt gtcacctgaa caagaatggg aggttccaaa 300
ggaaatattc tcgagcttca tgcaaagtct aactcaggag ggaacaggcc tccctccctgg 360
ctgaagagat gtccttattc ctggacagca atcagctggc tctcccttaag aaatgggtgg 420
gtcaaaaggc nacatgagct catgaaatgt tcagt 455

<210> 44
<211> 312
<212> DNA
<213> Homo sapiens

<400> 44
ctcacntgta gnagatatgg agcggagaga cgttgacttt gagcttatca aagtagaagg 60
caaagtgggc ggcaggctgg aggacactaa actgattaag ggcgtgattt tggacaagga 120
tttcagtcac ccacagatgc caaaaaaaagt ggaagatgcg aagattgc 180
tccatggaa ccacccaaac caaaaacaaa gcataagctg gatgtgaccc ctgtcgaaga 240
ttataaaagcc ttcaagaaat accgaaaagg agaaatttga agagatgatt caacaaat 300
aagagactgg tt 312

<210> 45
<211> 600
<212> DNA
<213> Homo sapiens

<400> 45
tccggagcgc acgtcgccag tcggctccct cgttgaccga atcaccgacc tctctcccc 60
gctgtatttc caaaaatgtcg ctttctaaaca agctgacgtt ggacaagctg gacgttaaag 120
ggaaggcgggt cgttatgaga gtcgacttca atgttccttattt gaagaacaac cagataacaa 180
acaaccagag gatataaggct gctgtcccaa gcatcaattt ctgttggac aatggagcca 240
agtccgttgc cttttagc caccttaggcc ggcctgatgg tttgcccattt cctgacaagt 300
actccctttaga gccagggtgtt gtagaactca aatctctgtt gggcaaggat gttctgttct 360
tgaaggactg ttttagggccca gaagtggaga aaggctgtgc caacccagct gctgggtctg 420
tcatccctgtt ggagaacctt cgttttcatg tggaggaaga agggaaaggaa aaagatgtt 480
cttggaaacaa ggttaaagcc gagccagcca aaatagaagc tttccgagct tcactttcca 540
agcttagggga tttttatgtt aatgtatgtt ttgcactgtt acagagccac agctccatgg 600

<210> 46
<211> 598
<212> DNA
<213> Homo sapiens

<400> 46

ttatgccaaa aa~~t~~ggagaac tacttaaata tattcgcaaa atcggttcat tcgatgagac 60
ctgtacccga ttttacacgg ctgagatgt gtctgttta gagttacttc acggcaaggg 120
catcattcan agggaccta aaccggaaaa cattttgtta aatgaagata tgccatcca 180
gatcacagat ttggAACAG caaaagtctt atccccAGAG agcaaacaag ccaggGCCAA 240
ctcattcg~~t~~ ggaacagcgc agtacgtttc tccagagctg ctcacggaga agtccgcctg 300
taagagt~~t~~ca gaccttggg ctcttgatg cataatatac cagtttg~~gg~~ caggactccc 360
accattccga gctggAAACG agtatctt~~t~~ atttcaagaag atcattaa~~gt~~ tggaatatga 420
cttccagaa aaattttcc ctaaggcaag agacccgtg gagaaactt~~t~~ tggtttttaga 480
tgccacanag cgg~~t~~taggt~~t~~ g~~t~~gaggaaat ggnaggatac g~~g~~acccctt~~t~~a aagcacnccc 540
ctnctt~~c~~gag tccgtcacgt gggaganctg caccagcgac gcctccgaag ctcacccgt 598

<210> 47
<211> 485
<212> DNA
<213> Homo sapiens

<400> 47
aaattcagaa aggagtattt gaggtgaaat ccacaaaatgg ggatacc~~t~~c ttaggtgggg 60
aagactttga ccaggccttg ctacggcaca ttgtgaagga gttcaagaga gagacagggg 120
ttgatttgac taaagacaac atggcacttc agagggta~~c~~ ggaagctg~~t~~ gaaaaggcta 180
aatgtgaact ctcctcatct gtgcagactg acatcaattt gcccstatctt acaatggatt 240
cttctggacc caagcattt~~t~~ aatatga~~gt~~ tgaccnngt~~g~~ ctcaattt~~t~~ga agggattgtc 300
actgatctaa tcagaaggac tatecgctcca tgccaaaaag ctatgaaga tg~~c~~agaagtc 360
agcaagagt~~t~~ acataggaga agtgattctt gtgggtggca tgactaggat gccc~~a~~agg~~t~~t 420
cagcagactg tacaggatct ttttggcaga ccccaagtaa agctgtcaat cctgatgang 480
ct~~g~~ng

<210> 48
<211> 293
<212> DNA
<213> Homo sapiens

<400> 48
aaagaaaat~~g~~ attgcagcag actattaata aattaaccaa ggaccctgg~~a~~ agctgaacaa 60
cagaagttgt ggaatgagga gttaaaat~~t~~ g~~c~~agagnan n~~g~~aagc~~g~~att gaaacacaat 120
tagcagagta tcacaaattt~~t~~ gctagaaaat taaaactt~~t~~ tccctaaagg tgctgagaat 180
tccaaagg~~t~~ atgactttga aattaagttt aatccccgag gctgg~~t~~g~~c~~aa ct~~t~~gcctt~~t~~g~~t~~ 240
caaatacagg gcncaagnt~~t~~ tatgtacccc cttaaggaac ncccgaat~~t~~gg aaa 293

<210> 49
<211> 632
<212> DNA
<213> Homo sapiens

<400> 49
ggcacagaat caaaagttt~~c~~ t~~t~~gggaatt ttaaatataa aactt~~g~~aaat gtatccacca 60
ctcaatcaa~~t~~ cgttat~~t~~ca agaagt~~g~~tg aacacacagc ttgcttt~~g~~ga acgtcagaaa 120
actgcagaga aagagc~~g~~att atttctt~~t~~ta tatgcta~~g~~c agtgg~~t~~ggag agaata~~t~~tg 180
caaattc~~g~~ac cctcacacaa ctcacgactg gttaa~~g~~attt ttgcacagga t~~g~~aaaat~~t~~gg 240
ataaaatagac cagtctgtt~~c~~ ctatgttaaa ccactt~~c~~gag ctggac~~g~~gt~~t~~ctt~~t~~ata~~c~~t 300
ccaaaggcaag cagcaagat t~~t~~taat~~t~~gc cttgg~~t~~at~~t~~g aacgagcccc t~~t~~tatt~~t~~gg~~a~~ 360
ggaggaggta aacaggagca g~~t~~gg~~t~~gact ctgc~~t~~ggcct t~~t~~ctctgt~~t~~g~~a~~ aacaagggt 420
gactgtgaag atc~~c~~acgt~~t~~aa ccttctgtgc agccttctt~~c~~ ttggata~~t~~gg attagaagcc 480
tttgtt~~t~~gt~~t~~g~~t~~ g~~t~~gggaccaa g~~g~~ccaaaagg~~a~~ g~~t~~ac~~t~~cat~~t~~g catgggt~~t~~at~~t~~ gactt~~t~~gt~~t~~gg~~a~~ 540
actgatgggg gcatcactt~~t~~ t~~t~~ggagagtt tanaggaccc agtacccccc taaacctacn 600
aatccccgat~~t~~ aacccccc~~t~~ant gctgaacagn cc 632

<210> 50
<211> 582
<212> DNA
<213> Homo sapiens

<400> 50
ccaaaggccat~~c~~ caaaatcccc aagccccctaa gcccccaagg ccccccaaaa 60

```

cggtgaagct caaagatgga ggcaagaaga aagggaagaa gtcccgggag tcagccctac 120
ccaccatccc caaacctggac ctgctcgaag cccacaccaa ggagggcactg accaagatgg 180
agccgcggaa gaagggcaag gccacaaaaga gtgtccctgag tggcccaac aaagatgtgg 240
ttcacatgca gaatgtatgtg gagaggctgg aaattcggaga ccaaaccagg agcaagttag 300
aggccaagtg gaagtacaag aacagcaaac ctgacttctt actgaagatg gaagaggagc 360
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ccaacaagaa actccctcggc tccaaaggctc tcagggcccc gacggagccct ggtgttgtcg 480
gggccttgcg gaacttcaag gaggacaagc ccaagtttgtt gctggatgag tatgagtacg 540
tgtcgatgtca cggatgtcaag cagatcgacg agttttcccat cc 582

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<210> 51
<211> 523
<212> DNA
<213> *Homo sapiens*

<210> 52
<211> 348
<212> DNA
<213> *Homo sapiens*

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<400> 52
gcangcgcaa ntacccggcgc tcgccaagga cccttggaaagc taccgttacc ccggccggcag 60
cgtgggcnca tgagcagctt gggactgtat tcggagaagg tagctgtct gatacagaaa 120
ctgaatcccg acccccagtt cgtacttgcc cagaatgtcg ggaccaccca cgacctgtcg 130
gacatttgtc tgaagggggc cacggtgcag cgcgcgccana tggtgttcca gcacggcgtg 240
ccccaggagg gaaagccaat caccaaccag aagagcttcag ggcgatgtcg gatctttct 300
tgtctgaatg ttatgaggct tccattcatg aaaaagttaa atattgaa 348

```

<210> 53
<211> 355
<212> DNA
<213> Homo sapiens

```

<400> 53
ggcggcgncg gcggcgta nt angnagggtg cacagagaac accccttagca tgaacagtgt 60
gaggatccca ccagttttt caccatggaa gagacagacc gggagccgtt ggcacanagg 120
tgc当地gggt tgctgggtat ctccagcgcc cggaccagct ggacaagggtg gagcagtatc 180
ggaggagaga agcggcggaa aaggcctccg tggacangaa tttaaagaga gcgatctga 240
aagctcaagggt gccccatttc gtccctgtggg tcagccgtcc tggggccaag ttgtggtgct 300
ggctaaacaaq caaggactcc cccggcccaa agccagttga agtttcttgac cgttc 365

```

<210> 54
<211> 330
<212> DNA
<213> *Homo sapiens*

```

<400> 54
aacnatgcng ttttctccctt ctacacactt gggcgccatg tctggagctg cagaggaggt 60
ggccactgga gcagagggtgg tggatctgtt ggtggccatg tgttagggcag ctttagatc 120
cccttagaaag agcatcatctt ttgagcctta tcccccttgtg gtggacccta ctgatcccaa 180
gacttcggcc tttaaacccta aagaagaagaa ttagtgaaaggc gcttcagaaa gctctggat 240
agtgtgatgt ctattccggg agatgaccctt gggctcataa ttggaaatc aagaaaacaga 300
tggacaaaatg ttggatccccctt ctggggccat 330

```

<210> 55
<211> 451
<212> DNA
<213> Homo sapiens

<400> 55
tcngacagaa aagctgtacg ttataatgttg gaaatctttc ttttacaca actgaagaac 60
aaatctatga actcttcagc aaaagggtg acataaagaa aatcattatg ggtctggata 120
aaatgaagaa aacaggcatgt ggattctgtt ttgttgaata ttactcacgc gcaagatgcgg 180
aaaacgcccatt gcggtacata aatgggacgc gtctggatga cogaatcatc cgacacagact 240
gggacgcagg cttaaggag ggcaggcaat acggccgtgg ngtatctggg ggcagggtt 300
cggtatgaag tatccggcag gactaccgt gctggaaaga ggaggctaat gggaaaactg 360
gcacagaacc agttagtggt tgagagctct gtcagtgaca aacactccct tggccgttt 420
gaatttgttg aagaacatca cctaaagtgc 9 451

<210> 56
<211> 355
<212> DNA
<213> Homo sapiens

<400> 56
ggatgtggag tggatggaaac ggttcacata ctgactgtgg atctcaagta taccattgaa 60
aacccaaggc actttgttggaa ctcacacccac cagaagcccg ttaatgcctat catcgagcat 120
gtgcgggacgc gcagttgtggc cagggccctg cccctcccg attactaccc ggttacagtc 180
atgctgtcag gcatcaagtg cccaactttt cgacgggaaag cagatggcag tgaactcca 240
gagcccttttgc ctgcagaagc caaattttc actgagtcgc gactgctica gagagatgtt 300
cagatcatttc tggagagctg ccacaaccag aacattctgg gtaccatccct tcattc 355

<210> 57
<211> 468
<212> DNA
<213> Homo sapiens

<400> 57
ttttcttggaa ttcccgtcgt aacttaaagg gaaattttca caatgtccgg agcccttgc 60
gtcctgcaaa tgaaggagga ggtatgtccctt aagttccctg cagcaggaac ccacttaggt 120
ggcaccaatc ttgacttcca gatggAACAG tacatctata aaaggaaaag tggatggcatc 180
tatatacataa atctcaagag gacctggggag aagttctgc tggcagctcg tgcatttttt 240
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<210> 58
<211> 394
<212> DNA
<213> Homo sapiens

<400> 58
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aaggcagatgtt tggactgttcaagggttcg ctcagagacc acctgtccccc gacactcaaa 360
cgccagacccgtt gggatcttcgg caggtatgaa ctgc 394

<210> 59
<211> 296
<212> DNA
<213> Homo sapiens

<400> 59
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<210> 60
<211> 426
<212> DNA
<213> Homo sapiens

<400> 60
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gagaaac

<210> 61
<211> 461
<212> DNA
<213> Homo sapiens

<400> 61
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cctcaatctg gtgcaggccc tcaggcgtt tctatggagc tttcgccctac ccggagagggc 180
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cagtctccac aatcccaatg tccgggaccaa gccgggcctg gagcgttttg tggccatgaa 360
ccggggcatc aacgagggcgc gggaccctgcc tgaggagctg ctcaggaacc tgcacgacag 420
catccgaaat gagcccttca agattcctga ggatgacggg a 461

<210> 62
<211> 422
<212> DNA
<213> Homo sapiens

<400> 62
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<210> 63
<211> 230
<212> DNA
<213> Homo sapiens

<400> 63
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ggcggctgaa ccggggcctg cggcggaaagc agcactccct gctgaagcgc ctgcgcagg 180
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<210> 64

<211> 408
<212> DNA
<213> Homo sapiens

<400> 64
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gaaaaagagg gaaggagcga ttggggatt gtcacaagtt cagctggaa 408

<210> 65
<211> 463
<212> DNA
<213> Homo sapiens

<400> 65
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gtacatgtac ttcaactgtgg tgatggcaga gggcaaggag atc 463

<210> 66
<211> 512
<212> DNA
<213> Homo sapiens

<400> 66
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<210> 67
<211> 367
<212> DNA
<213> Homo sapiens

<400> 67
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gagcgagcc gtttgcgtgtt gctggagggg ggccgcacctg ggcgtgtgtcc cccgtgtggc 180
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atccaagatg gccgnccatg ccccatcattt ctttggatg catctttatc tccagcaagt 360
aatgaca 367

<210> 68
<211> 402
<212> DNA
<213> Homo sapiens

<400> 68

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caatgcatt gtggggcagtg gaatcccttgg gcttttttat gccatggcta atactggaaat 180
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tatgtcaags taccttttca tagtggaaata tgagtggct tt 402

<210> 69
<211> 545
<212> DNA
<213> Homo sapiens

<400> 69
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gaatggctcg tatttccctca gtatgtatgt gatcgaattt actccatcaa atttcaaccg 180
agaagtattt cagagtgtata gtttgggtc tttagaattt tgc当地 ggtgtggtca 240
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cagaactgtt gaagccattt tagatgtgtc gctgagttgt ctgc当地 cgtgaaggat 480
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gtaag 545

<210> 70
<211> 359
<212> DNA
<213> Homo sapiens

<400> 70
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tcaaggaaat tagatttgc当地 aagcaacgtt tcaaaatttgg gatgaaagat ttccaaattt 359

<210> 71
<211> 392
<212> DNA
<213> Homo sapiens

<400> 71
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cctgttccgtt ttcttatcc atgc当地 cc当地 accgaatttgg cc当地 gatgtatgg agaagaggaa 180
tgc当地 tggatgtatc gatgtatgtatc tggatgtatc atgc当地 ggttgc当地 tca 240
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tgc当地 tggatgtatc gatgtatgtatc tggatgtatgtatc tgc当地 cc当地 360
aatttcatgtatc tcccatgggg aagtttctgc 392

<210> 72
<211> 344
<212> DNA
<213> Homo sapiens

<400> 72
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cgccagatacc cacgtaaan atgtatctnc tgc当地 tggatgtatc tggatgtatc 120
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gc当地 gtc当地 tggatgtatc tggatgtatc tggatgtatc tggatgtatc tggatgtatc tggatgtatc tggatgtatc 344
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<210> 73
<211> 311
<212> DNA
<213> Homo sapiens

<400> 73
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caagaacgtg aagctccctg acgcctatga gcgcctcatt ctggacgtct tctgcgggac 300
cagatgcact t 311

<210> 74
<211> 176
<212> DNA
<213> Homo sapiens

<400> 74
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tccaggtact accatgtttc tgcatggct agtggaaatg gtatatgtttt tctactttgc 120
ctcccttcatt ctactactga gagaggtact tngaccttgtt gtcctgtggg ttcctaa 176

<210> 75
<211> 276
<212> DNA
<213> Homo sapiens

<400> 75
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cattatgaac atagaaccag ccattcttgtt catgca 276

<210> 76
<211> 310
<212> DNA
<213> Homo sapiens

<400> 76
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cacccctttttt ttgtgggggtt agaggaggtt gcagttttt actcagtgtat ctttctactt 300
tcttagaaact 310

<210> 77
<211> 295
<212> DNA
<213> Homo sapiens

<400> 77
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<210> 78
<211> 406
<212> DNA
<213> Homo sapiens

<400> 78 caaaaagctg gttggccctcca gacccgactt tttaaccagg gagcaccaga cacgggatgt 60
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<210> 79
<211> 288
<212> DNA
<213> *Homo sapiens*

<400> 79 aagaaggaga ggaaggagaa gagacggcag agganggggg aagagtgcag cctgcctggc 60
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gagazgcata attnnnttt ctgtgagttt gctactggct tttzggagta ttngatatg 240
aatacagatc ctatcagct cacaaataca gtgcacacgg ttagaacg 283

<210> 80
<211> 322
<212> DNA
<213> *Homo sapiens*

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<400> 80
aaacagcaggc tgggtggtaa caagtggatc gtcatgttca gtagtttata cattatgtga 60
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<210> 81
<211> 361
<212> DNA
<213> *Homo sapiens*

<400> 81
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g 361

<210> 82
<211> 206
<212> DNA
<213> *Homo sapiens*

<400> 82
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tggttgcagc attcatagcg caaatgtac ctgaacttgga aagccgaatt ctgcagatat 180
ccatcacact ggccggccgct cgagca 206

<210> 83
<211> 563
<212> DNA
<213> *Homo sapiens*

<400> 83
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tggaggagaa aagcacactg gtg 563

<210> 84
<211> 450
<212> DNA
<213> Homo sapiens

<400> 84
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cttttttggaa aatattctat ttaatggaa agaattatgt agaaataactg gatacatttt 420
taaaaaacatc cataattcac catcttgaca 450

<210> 85
<211> 320
<212> DNA
<213> Homo sapiens

<400> 85
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aaaccagtgg gatagaaaagt ccaacggatg accatgtaca gatggaccaa gctggaatgt 180
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gcaacagttt agtagcagag acagtaactc atagtttgc acctcagaat gagcctaaga 300
ctttaaatca agatattttag 320

<210> 86
<211> 524
<212> DNA
<213> Homo sapiens

<400> 86
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<210> 87
<211> 439
<212> DNA
<213> Homo sapiens

<400> 87
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aatgactacg tggacatcat ctgcggcac tatgaagatc actctgtggc agacgtgcc 180
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tccaggacc aagtcccgctg gcagtgcac cggcccagtg ccaagcatgg cccggagaag 300
ctgtttgaga agttcccgctg cttcacacctt ttcacccctgg gcaaggagt caaagaagga 360
cacajctact actacatctc caaacccatc caccagcatg aagaccgttg ctggaggttg 420
aaggtaactg tcagtggca 439

<210> 88
<211> 376
<212> DNA
<213> Homo sapiens

<400> 88
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caaaggactt ggaaagatgt ggttagaaaga gcttgtcaag caagagctga agaagtttgt 300
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gcaaaagctc agatcc 376

<210> 89
<211> 341
<212> DNA
<213> Homo sapiens

<400> 89
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tggacacaga gtgcagggt gtcatcgact tggcgaggt ggaggctgttgc acactggca 180
cgccccactat gggtggccct aagactgtgg acgagaaggc cttcttttgcgttac gtgaagacaa 240
cgcgctcgctt tacaacttct gtgcccaggaa cgtgcccctcg gcccagctgttggaccg 300
gttccagaggc tgcctgtcggtt acgcctgagc ctccccagcccc 341

<210> 90
<211> 394
<212> DNA
<213> Homo sapiens

<400> 90
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gtcaacttata tgatgtatca aaaagaatgc cacaagaact aattgaggct tcaaatttggc 120
atggatttt tcttcagag aaaatatctt caactctcaa agtagaaatcc ttgttctttga 180
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gttccacccat atggggagac gatattttgtt gtgagaaaaat ggtggcaaca gtccacagcc 360
taccaagttt ctctatgttcc tccgtggctt tctgttgg 394

<210> 91
<211> 153
<212> DNA
<213> Homo sapiens

<400> 91
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gggtccctcga tttcgagaaaa ctcctgttttgg 153

<210> 92
<211> 479
<212> DNA
<213> Homo sapiens

<400> 92

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taaaaacaaa	agtgtgtgtg	tgtgtgtgtg	tgtgtttact	ctcaaaaggcac	agcattttcca	300
cagcagcagc	caacatgggg	tttagtagct	tcactcaccc	ctaactaaag	ctttgaataaa	360
accagtgtatt	tactacaaaa	aacactgtcc	ttgaaaagaaa	ngacngcagt	catacatgaa	420
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<210> 93
<211> 560
<212> DNA
<213> *Homo sapiens*

<210> 94
<211> 396
<212> DNA
<213> *Homo sapiens*

<400> 94	gacccctttac	cttactgtat	ctggcaaata	acaaatacag	atggtaatag	actctggaat	60
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tgatgcata	cttgtaccaa	tgataatacaca	ccttttgat	aagggggatt	ttggccccaaag	360	
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<210> 95
<211> 622
<212> DNA
<213> *Homo sapiens*

<400> 95	atggagagtc	acttaataat	aaattttctc	tatagttaggt	aaatccgatg	aaaggcagct	60
	gatttccaac	aaaagcttta	ggaattggga	aggtttctac	atctcccttg	tcatcttcaa	120
	tgtcatcgaa	attgtcgctg	tctatgtcac	tgctgagttc	aggtaactaca	ggagctgccg	180
	titcttttat	gttataccca	tgccactgtat	catttttaaa	gaaaggatgc	tgtctgattt	240
	cttccacccc	attttccccca	agtcgtaccc	ccctatctgt	taagaaaagca	cagatgagat	300
	tctttgcatg	tttggaaatt	tctgcatctt	cagggaaaca	cagtgaattc	ttatgtatcca	360
	taattttgtct	ataatgttcct	acaagtgaat	ccgcataaaa	tggagtatcc	cccactagca	420
	tctcataaaag	gaaaacaccc	acagaccacc	aatcacatcc	tgcccatag	aaaccatcac	480
	cccctttgtga	tttcagaacc	tcaggtgata	tataatccgg	tgtttccaaact	gctgtatcac	540
	aatgtaccat	gcctgtttca	tccatcttca	tacaggtgcc	aaaatctgct	aatttttagat	600
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<210> 96
<211> 445
<212> DNA
<213> *Homo sapiens*

<400> 96

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cctatacaac	tccggatccca	caccatctaa	agggtttagta	aggccacttgc	tactccagtc	360
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<210> 97
<211> 541
<212> DNA
<213> *Homo sapiens*

<400>	97	cttccccc	tatccctgg	agcccccttc	tctcaggta	tagcgtagag	ggttaaacca	60
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<210> 98
<211> 384
<212> DNA
<213> *Homo sapiens*

<400> 98	atttggaccg gcatgcaggc aacttctttt gttgttacat acctgtat ^{ta} gaaaaattac 60
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agaccagtgt	gaatggcaca caaaaatcg ^c ctctttataa attaactgg ^a attcatgatc 180
atgaagtagg	cacaggggaa tccagtcctc aggggtttgc tctctggaaag aacaccttta 240
agtaatttt ^a	aaaaactttt ^a gcatcaggct gctgaagcgc ttgacaaaac tcctgaatta 300
tttctggagc	tacttgcaag gagggcagg ^t attcttgttg aagatact ^{tg} a acacattctg 360
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<210> 99  
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<212> DNA  
<213> Homo sapiens
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agtcaacttga gagtccaatc actctgttgg ggctaaagca ggtttcatg atcaggtaaa 480
ctccgatgcg ttccatgttcg tagtacgcgt atttcactgt cagagggggtg aacat 535

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<210> 100  
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<212> DNA  
<213> Homo sapiens
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<400> 100
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acaattttga ctaaagaata aatcccttca ttgttaaacc taaaacagctt taaaatttcag 180
ccatggaca taagataaga ctgaaattca aacttctgat gtcctggca aacctgaata 240
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acactggatt catttttaga caggcataga ct 452

<210> 101
<211> 447
<212> DNA
<213> Homo sapiens

<400> 101
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gcatttcaca cccttcaattt acaccacatc aagaatgggg ggaaagcggtt gtaaaagtag 180
actactgcaa tgcacttat atttttgcaaa taaaaccagg aagcatccat atcaagagag 240
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agtctcatag gtcaataaaag cttctgcgag attcttatgc tcctttgcat gagtttcaa 360
gatatgtttt gctcgttcat atgagtcact tagaaggattt ctattttcat gttcgatggc 420
agattgggtt tctggactta ggtttcc 447

<210> 102
<211> 368
<212> DNA
<213> Homo sapiens

<400> 102
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tcccttttaa tttaataaca ttcttattt acagattttt cataaaaatat catctacagt 180
tgcaagcat attgcacattt acagagaagc attttgtgtat ttccgttaat tttcccagag 240
tttccaactc tatacttttt ttgttaaaaaa gatttacctt tcttatgcaaa aataaataaa 300
aatgcagctt gtgttttgcattt aaaaactt aacccaaaat aacccaaaaat aatattttc 360
ctctgcctt 368

<210> 103
<211> 685
<212> DNA
<213> Homo sapiens

<400> 103
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ctgtgaccca taatcccaac attttacagt gcaggggaga aggaggcttg gggaaagcatc 180
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<210> 104
<211> 676
<212> DNA
<213> Homo sapiens

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aaagttagtcc tcaatctcg tttggccaccg ggacttttca gcagcaggcc ttgtttgtgt 660
agaagagatc acaaga 676

<210> 105
<211> 367
<212> DNA
<213> Homo sapiens

<400> 105
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acccaaagaa agaaaatttttctt ctggccatgt tgatgggttga caaggagaag aaagggttacg 360
tcatggc 367

<210> 106
<211> 440
<212> DNA
<213> Homo sapiens

<400> 106
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ttggccgtgag aggactgtac 440

<210> 107
<211> 442
<212> DNA
<213> Homo sapiens

<400> 107
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<210> 108
<211> 453
<212> DNA
<213> Homo sapiens

<400> 108
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<210> 109
<211> 421
<212> DNA
<213> Homo sapiens

<400> 109
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gagaactttg gagaaaggag cagcatgggt tcgactaaag acttcataa caccctcagt 180
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<210> 110
<211> 309
<212> DNA
<213> Homo sapiens

<400> 110
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<210> 111
<211> 489
<212> DNA
<213> Homo sapiens

<400> 111
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<210> 112
<211> 563
<212> DNA
<213> Homo sapiens

<400> 112
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gtctttgtc catcagatct ctgtgataat cacatggaaag gtggggctca gcctgggg 540
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<210> 113
<211> 587
<212> DNA
<213> Homo sapiens

<400> 113
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aatatggatc acagtggttt ttctcttatt caggtataa gcaatgcctt gaaaggtttgg 180
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accaaactt attggagaag aatttagcaca actaaaagag caaagacgtcc ataagacaga 540
cctggAACGA gtgttagaaag cacatgtggg ctcaggaaatg tttagacg 537

<210> 114
<211> 222
<212> DNA
<213> Homo sapiens

<400> 114
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ttattggcat agaggatata aactgttaaa taacctgaaa tgacaccatg caatgggtgaa 180
actacagaag ttgggtaaaa gaagtattta cataatgtta ta 222

<210> 115
<211> 512
<212> DNA
<213> Homo sapiens

<400> 115
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tcttgcattt caaactgtcc acccttcttgg tcatactgc tttttttttt ggactgcggg 300
tgaactgaca cttgtatggc aatttgcgtt ggttgcgtt gcagcgtatg ggcgtccgag 360
tcaagcggcag gggagtcgtt cgcgttccaga gagttggggaa ttgttgcgtt ctcatccctg 420
totgcggccctt cctggctctt ggagtatgcc tcaaaaattt tgccccggcc ctccagccca 480
accacatcat aatctccctcc atgatagtcc cg 512

<210> 116
<211> 566
<212> DNA
<213> Homo sapiens

<400> 116
ttttttttttt gttttttttaac cccccccggag aagctctgtc cccagctgtat gcccattgtt 60
gaagaggctt tgcggagagg agccatacc agcgaaagc tganctctg gtgtggccg 120
tgctgtctga cggagctggc gaccacatca ggcagagact gctgccccca ctgctgcaga 180
ttgtgtgc aa gggccctggag gacccctcg aagtgttacg caatgtgcg ctgtttggcc 240
tggggccagg ttcagaaaaac ctacagcccc atatcagcag ctattcaagg gaggtatgc 300
cactgctctt cgcctactt aagtcgggtgc ctcttggaca cacacaccac ctggccaagg 360
cctgtatgc cctggagaat ttgtggaga acctaggggcc caaggtgcag ccctaccttc 420
cggagcttat ggaatgcattt ctgcagcttc tgaggaaacc cagcagttcc cggggccaagg 480
agctggctgtt gagcggccctg ggagccatgtt ctacggctgc ccaggccctg ctgtgtggcc 540
acttccctgc catcatggag cacctg 566

<210> 117
<211> 549
<212> DNA
<213> Homo sapiens

<400> 117
ccctgtgcaa tggtagctc tcaccccact cccaagtgcc ataattgaaa taatactgg 60
ttggagaatt agtacagatt ggtcataaaat ggcgcataaaa gtccgtagat ccaggtaaag 120
gtatcccaa atggcgtagt aatgcactgc agctgccgtg gccacaaaca ggtgccagat 180
ggcggtggca aatggatga tgccatcaact ttgaagaac acaactccca agcaataaaat 240
taagccccca caggaaatgtt cctgaagtcc atcggtgttg ttcatgtat tcaccaccaa 300
ggctggagag aatcccattt tgagatagaa aaagagttca accacccat atttttcatg 360
gtagagaaat acataaatgg ttccctccagc tgccatgagc cagataaaacc aacgcataatg 420
agatgccagg ggtccaagtt caogaagatt taaccatgga gcataagaag cagcaatgaa 480
gaardataga accattctat cacacatgtt aaaacaatgc tccactgtcc ttaagtggct 540
549
ctttttcca

<210> 118
<211> 416
<212> DNA
<213> Homo sapiens

<400> 118
ccggggcaca taaatagtat ggcttagaaag aaggcgtggg tacagatgtg caggaatgct 60
agggtgtggtt gggtgatgcc gattgttaact attatgagtc ctatgttact tgaagcggag 120
aaggctacga ttttttttga tgcatttttg tgtaagggcg cagactgtg cgaacagagt 180
ggtgatagcg cctaagcata gtgttagat ttggattagt gggctttt ctgcttagggg 240
gtggaagcgg agtagataaga agattcctgc tacaactata gtgctttagt ggagtagggc 300
tgagactggg gtggggcctt ctatggctga ggggagtcag gggtagggac ctaattgggc 360
tgatccact gctgctgcta ggaagaagcc caataagtgg gtgaggcttg gtttag 416

<210> 119
<211> 405
<212> DNA
<213> Homo sapiens

<400> 119
cggggccctta cctgcgcacga cctgttccgc ttcaacaaca ttaacttggg tccacttaca 60
gaaactttagt ggattccctt ctacctacaa tacctcgccc actggccaga gtatccatt 120
gttgcagagg cacctgggtgg agaattaatg gtttatatta tgggtaaagc agaaggctca 180
gtagcttaggg aagaatggca cgggcacgtc acagctctgt ctgttgcggc agaatttcga 240
cgccttgggt tggctgctaa acttatggag ttacttagagg agatccaga aagaaagggt 300
ggatcccttgggt tggatctctt tgtaagagta tctaaccaaat tgcaatgtt catgtacaag 360
cagttgggctt acagttgtata taggacggtc atagagtact attcg 405

<210> 120
<211> 318
<212> DNA
<213> Homo sapiens

<400> 120
cggacgcaga tacatccaga cagacagcgg cccctactgt gtgcctgtt atgacaatac 60
cttgcacac acctgtgtg acgtgccagca gttatcggtt catgactcga gggagctgtt 120
ctatgaagac cgccatcc acgagggctg cttccgtgtc tgccgtgtcc agcgctcact 180
agccgatgaa cccttcaccc gccaggacag tgagctgtc tgcaatgtact gctactgtcag 240
tgcgtttcc tcgcgtgtt cgcgttggg ggagactgtc atgcctgggt cccggaaagc 300
318
tggaaatatg gagggcca

<210> 121
<211> 460
<212> DNA
<213> Homo sapiens

<400> 121
tttaatctaa gaattttcttt attttatgca taataaaaagg gactacaaaag aacagctgaa 60
aaggcagaag acaaaaggAAC aaaaataaaAC aatgacgtgt attcacccaaAC aaacaatgag 120
aaatctatgc aactagacta tcagttcaat ctatcccAG gtgcgtatcc tcactgtgac 180
acgtggcaga gttacgcaca gatgtcagca ccaagacttc cttttctggg agtaatccaa 240
atccctggag aaaagcttca aggtccacag caaagaatac atcccccaAG gggtcagtaa 300
cacgaacaaa attgccgatc aatttaccccc ctttatagat cagcagggca ggaaggggcat 360
tcctgggtgaa ctgactgtcg ggcacaataa ctgagcttt caccttgcaG aacttgacag 420
ctgggtactc tgccggcaagg cagatcatgc aaccattcat 460

<210> 122

<211> 672

<212> DNA

<213> Homo sapiens

<400> 123
atagagccctc acagctgcca gctgttcccg ggccccggAAC gtctgggtca gtgagggtccc 60
atctggcagc ctgaccctgtt tgccacacttg gtcaatactcc cgcttgggtgg gagggtcccg 120
gctgggagaa gagggAACAG gacctggctc tgggtggccact ggggggtggct gagagcccaac 180
actggccacca tacttcttgg ctctatctgc ttgttccccc tgcattttttt ctctaactct 240
ttgtctggct gctaactctt cggcccttttcc cttccggctc tccctcagcaag cccggcgcat 300
ctcatcttcc ttagccgct gtctgtgtcg tgacaaactct tgcccttgc tccctggcgctg 360
ccgtttcccg ttcaatgtctt ccgtttccctc tttttttca cgctcccgct gtttctgggg 420
ccacagctcc aacatccccctt ctatgttgtt ccgtttccctc ttcttactca aagnnnnnn 480
tgcccttctcc cgcagccaga aacagattct tcaagggcgc ctgggtccctg aggaatttggg 540
gtccccgtccc aagatatgtc caaggggagg ttcaaaaggg tctttcaaaa tcgggttggg 600
cttggtcttc aaaaaaccat tccatgaaag ctgtttccctt gaaggggcaaa 660
aactttctcc gg 672

<210> 123

<211> 310

<212> DNA

<213> Homo sapiens

<400> 123
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actgtgatat gggctactcc gcacaaaAG gaaaaactgg ctgtacagac atcaatgaat 120
gtgaaaattgg agcacacaac tggccaaac atgcgtatgc tccaaataca gcaggaagct 180
tcaaataatgtat ctgcagtccc ggggtggatgt gagatggcat taagtgcact gatctggacg 240
aatgttccaa tggaaaccat atgtgcagcc agcatgcaga ctgcaagaat accatgggat 300
cttaccggctg

<210> 124

<211> 302

<212> DNA

<213> Homo sapiens

<400> 124
gcagagctgg acctccagac ccggatgagt ctgcggtcct tctggaggcc atcggggcagt 60
gcaccagaac cgattcatcc ggcagagccg canagcagca gcagcaacaa caacggagtg 120
aagagctgtc agcagagaga aagcctgggc ctctggaggc gggaaaggcga gaccggcc 180
tggggagatg cgggatcaga gccccaaaggg aagagagtca agagaagaga gactaagtcc 240
gagggagacc agagagagga ggctggggat agggggagcc caagagtgtg gcctgaggcc 300
tc

<210> 125

<211> 811

<212> DNA

<213> Homo sapiens

<400> 125
tttgggtttt ttaagaatttt tttaaacaaa acagaaatca cagtgaccAA gggtaatgcg 60
agtctgtgtc ttcccttgcctt atgcgtctcc ccacagctct cgggtgggtac taaatgacgc 120
gccactgcgt gatgtttgtg tctttcccgcc ccgtggagat gagggtggctg tcttcacaga 180

ggaaatcgac	attggtgaca	tggctgtgt	gccccgcgtt	gatgtggctt	ggagccctga	240
actcgcgagca	ggggatcgag	aaggaggcgca	ttttgccaaa	gtcgtcgcc	gttgcacagga	300
gtttcttc	atggggccccga	cagacggcat	tatgttggt	cccgcccgag	ccttcgtggc	360
acactccaaa	aaaatggaaat	cccaaagtgg	aggtataggt	aggccatcca	atgtctcttg	420
tagtttccac	acttacgact	tgcttacagg	cagagggaac	ccagtagagg	atttcgta	480
ctcccgaaatt	tgacacgagg	aactgtgagt	ttacagaccca	gtccaggta	gtaatgaagc	540
tggaaatgacc	cgagcacitg	cccactcgcg	tgtacttcct	cccggttgta	ctaaaggcat	600
atataatagat	gcagttgtcc	tgtgagccca	tggtaaaagaa	atttccatc	tggtgagat	660
tgcattiacag	agaagccgac	ggttccatcc	tgtgtgaagg	gggaccaagt	cttttgcrrr	720
tcgtgttaaa	aacaacccac	ctccccagtt	gtggttcgac	ttcaacccac	gacccttgcag	780
ggatgaaacc	aagagaactg	ggccggttct	c			811

<210> 126
<211> 456
<212> DNA
<213> *Homo sapiens*

```

<400> 126
ttttttttttt taaaatacaa aaaacagctt tactcagact ttttgacigc catgtccccc 60
tttagaagga ctacagtgg gctacttggt ctcttcgtggg gcagatgtgg catcctgagg 120
tgtgttagct tcgtccgggt cagatacagc tccttaccaca gttaggggtgg tctcagataa 180
agcaggggatg gttttctggag tggaaatggc ttctgtctca ctgggggtgg tgcgtatgg 240
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aacagtcatg gcctcttctt ctgtttccaa ttctgtttct tgattttggaa ctccctcacc 360
ctttttcttacc atagcagggtg gtatgtttaa taaatgtctga tgataatgtat gtgtatgtctg 420
tatcaaatqcc atgtacatgt tgatcacaaa gtttgc 456

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<210> 127
<211> 292
<212> DNA
<213> *Homo sapiens*

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<400> 127 ttccgactctt tttcacatgt ttttcgatag cactgccatt tgggtctggac tggcagcttc 60
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tctggctggc ttgtcaatg gcctatttt gatcttcaact gctttttta ttttctcaga 180
aggagtgtgg agagcattag cccctccaga tgtccaccat gagagactgc ttcttgttcc 240
cattcttgggg gtgtgtggtaa acctaataagg aatatttggt ttcaaaaatg ga 292

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<210> 128
<211> 433
<212> DNA
<213> *Homo sapiens*

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<400> 128
gtaatttcat agttatTTTA ataaccaggT ttacattaac agtcacgtga tgaacttttt 60
tttttaatgt cagctaaACT caaaaacacAG ttttggTTcac ggTTcaAAAC aaacagCTCT 120
ttacgttcca gagctgcCTC acagCTtagCA cagnTCacAG gagATTACTG tctgtccata 180
cccaccAGAC acagaACTGA acaccACAC accAGTTTC aaAGAGGGAA cttaACAATGA 240
atgctggCTG cccaggGGcAC ccAtgAGTGT atctgggNCT caAGCTGGAG ttttCCAGGG 300
gagaAGGCTT gggAAGCTTg gTggcaAGGA agttgggNAT tgccccACCTT actgggAAAG 360
gggtttCTCA ggggttGAGT gaaaATccccG ggtttagggNt cagccccTTTG tgggAAACAT 420
ggggcactttc agt

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<210> 129
<211> 372
<212> DNA
<213> *Homo sapiens*

<400> 129
gatccaggag ccacacagct gccatggttc anaaggcccc ggaaaccgac ccaggagatg 60
ccgtgggtgt cncgttttgc gannttgcgtga ttcttaactat naagccattt gtaaggttacc 120
tcgaaaaggcg gccagaagta ttcctgcgg cccttcttagc aggtgggtoga ccagcatttg 180
cactqaqaa ccagcgttgt ctgaggttgg gccaccggac tttagcaagca caaaggtaacc 240

ccccagatgg gaaaagcatgg aggaagagac gcctggttcc tctgtgggaa tctttggatg 300
caagcttcca ggcttagccc ccacaacagg aagatgagga gactgagaga agtgcaaagg 360
aacctggaaa gt 372

<210> 130
<211> 528
<212> DNA
<213> Homo sapiens

<400> 130
gagcggagcc ggagcggaag ccgcagccgg gcggcgggag cggcgggagc gggggaaagca 60
ggggggggccgg ggctccatgg cgccagccgg tcggccatgg ncagcgccgg caacagccgc 120
ggcgccggcc ggatcgccgc gcacacaccc ctggccatgg gggacgtgt gtccacgcac 180
ctggacgacg cccggccca gcacatcgca gaaaaaaccg ggaagatcct gacggagttc 240
cttcagttct atgaagacca gtatggcgtg gtccttca acagcatcgcc ccatgagatt 300
gagggcacgg ggctgcgcga gggccagctg ctctggcgcga aggtgccact ggacgagcgc 360
atcgcttct cggggAACCT ctcccagcac caggaggaca gtaagaagtg nagaaaccgc 420
ttcagccnt tgccccacaa ctacgggtcg gtgtcttacn aaaacaaaggc nggtctatga 480
ggggagginc caccacgagc cgtcatcaac agtgangct acaaaaatc 528

<210> 131
<211> 521
<212> DNA
<213> Homo sapiens

<400> 131
agaggaaatt gattagctat ggtgttaagg ttctggagag tcatactgaat gttgttat 60
ccataagcaa tagctgcatt ttctacaata tcacatgcatt ggataatgtc agctctggtt 120
ggagggattt caatctcaat ctgattccca tcacattatga cttctgtat taaatacata 180
ctggtcagaa gtttggcaag attttcttggat gtttctctga ttccaaacttt tttgttaatt 240
aggtcagtc tcaccatctc ctttcggtaa gctaattctg gaaaggtatg tgatttcca 300
tttagaaaaaa ccacttcagc agtttcgacc gtaaattgtat ttcactacaata ttcactgaac 360
atggtgacaa taatatcaag aactatnttt gccttagtaa agtcagttcc cgtgcattca 420
ataaaaaatat ttcttagtatt tactgttatt ctggaatgtat ccccatgtat gatgggaggc 480
attgaaaaga cgacaccatt gctatcatag ataactggat a 521

<210> 132
<211> 429
<212> DNA
<213> Homo sapiens

<400> 132
gagggggaga cggggagcag atgcctcaaa gggggtc当地 gagaggggaa ggaaatttgc 60
cataaataaa cggatgatt ccaaattgc当地 ggagtctca gagcggagc cggacggctt 120
ttccggagtc ctgggtctgc atctggccccc ttggccctg ctcactcgcc ctctccctc 180
cctccctctc ctccctctca ctgtcttgagc tccagggccc agacgtgtcg cggccagccc 240
gtccggccctt tggtttttttt ctgtcttgctg ctcactgtgc ttttcaagat ttctgtctgg 300
acagaggaaa ggcgagggc当地 agaaaagtgg aaagagaaaat tcagagagga tacctggttc 360
cacaccaacc cggagcttcc tgcgcggag gagacagtga accagagagg aaaggatacg 420
atggggggag

<210> 133
<211> 442
<212> DNA
<213> Homo sapiens

<400> 133
tcaaacaata acttggattt ttataacttct ctataactttt tagcaaattt ttttttgctg 60
aattttaaattt ataataaaact ttttaaaatta catctctctc tctttttttt ttaaaatcaa 120
ggctctttta tgtcaaaatc ttttttttagc tataatttttag attaacatc aacatcccc 180
ctttgtgatc tataccgttg gatattcagg tattactgtg tttgttaacag ctaaaacaag 240
agggaggagg gaaaataaaag gcagtgaact tggacggatg catcaacaac agcagataaa 300
gttaacccctt cagtgaccat agcagcatgt ctcttggaaag cttttactt taccctcagag 360
atttccctcag ccccttccctt ctctccctcc tttttttttt acacaaaagcc aacagtctgt 420

cctttcgctt ttcttgagga ga

<210> 134
<211> 913
<212> DNA
<213> Homo sapiens

<400> 134
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ctaaaggcaag tcagggaaagc ctggaaagat acccagatt gataacatgt tagaaggaaa 120
tccaggctaa ggaatctcat ttcttagct tgatctggg gtcagtggg atggacttgc 180
ccaaggatg gcccacagaa aggccaaatt tcttggggg ctcctcaacc tgtacctctt 240
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agacttggaa gcccacagaaa tgcagaatgc cactctgaat tggccagaga atgacattca 480
tgtccccgtg gatcccttgc agagagtaca tggagccact gccaccagg gtgatggaaa 540
gcactgcctt cttaactccgg aagggttctt tgcatacat ggcagcgtaa gtgtaaagcaa 600
actttctat gaacactcgc taaaaccagg ctttcaaat ggcaggact cccaaaccac 660
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acaatatatct gggctcagat gggctttctt tattaaggcag aacaagatcc gcaggatact 780
ggaaaggccc agggttctt cagtttactt ggaaggggctt ttggggaaag aaggatggg 840
aattatggga taaaggggcc gattccacaa cttcccttctt tttttttaaa gcccgtggc 900
aagctccctta tgg 913

<210> 135
<211> 750
<212> DNA
<213> Homo sapiens

<400> 135
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cataagtctt tcctagaaaa gtcctgctaa aacatgtcta gcaattttcat tgattatata 180
aagttagtaca ctttagtgtaa tttaaacatt ccaacaggaa tcaaatcgta ccagcagaac 240
cacttctgca tctatgactt ctatgtacaa acacacatgc agacacacac attttggaaa 300
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ttcaccaatt tgcatacgg cttcacgtt ctgcctttgc ttgctcacaa aagcatatca 480
tcatccacac tggtttttaa aaactcatca ttgcctatgtc caggagaggc aatctagctg 540
gagttaggtt atccagtcca ttccctgtcaa agcctccaac agctacagca caaacaccat 600
cagtntgcga tggctggggg gccttctgga agaagagagg caaagaaagt cttgaagaca 660
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tggaggggagg tgggttgggg tttccatttc 750

<210> 136
<211> 348
<212> DNA
<213> Homo sapiens

<400> 136
aaaaacgacgg ccagtgaatt gtaatacgcac tcactatagg gcgaattggg ccctcttagat 60
gcatgctcga gcggccgcca gtgtgatgga tatctgcaga attcggcttt tgacaccaga 120
ccaaactggta atggtagcga ctggcgctca gctggaattt cggctgggac taccgggtct 180
cactccagaa gagggttctt cagagcatgg tagtcttggg ttcttaagag aatgagagta 240
gaagctgcaa aaccttcttga aactggggct tggaggtcac acatgactttt ctcacattc 300
tgttcgtcaa aagcgaatca taaggacagc acagactcaa gggataag 348

<210> 137
<211> 505
<212> DNA
<213> Homo sapiens

<400> 137

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catgtcgag	cggccggccag	tgtgatggat	atcgacgaaa	ttagggccttt	kacaccagac	120
caactggtaa	tggtagcgac	cggtttccttag	ctggaaattcc	ggatgggtcc	aattgggtat	180
gaggaggatca	gttataatgtt	tgggattttt	taggttagtgg	ttgttttagct	tgaacgtttt	240
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ggttttttcc	tagtgtccaa	agagctgttc	ctctcttggta	ctaacagttt	aattttacaag	360
gggattttaga	gggtttctgttg	gggcaaaattt	aaagttgaac	taagatcttta	tcttggacaa	420
ccagctatca	ccaggctcggt	taggtttttt	gcctctwcct	ataaaatcttc	ccactatttt	480
tbtacataga	cgggtgtttct	tttttt				505

<210> 138
<211> S13
<212> DNA
<213> *Homo sapiens*

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<400> 138
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gccaaaactg Gggcatcgat gaggccatgg tgggtcgccg ccagctgggc ctgggatc 120
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gggaggacgt gggctggccc cagggccggag tgcagttacgg ggcggagtt gcctgtctc 300
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accggcccat gtccctgtcg cagtgtgcgc tggaggagaa ctgcctctcg gcctcagccg 420
cgcagactga cccccaccacg ggctaccgcgc ggctccctgcg ttctctcc 480
acaatggcca gtcggacttc cggcccaaga acg 513

```

<210> 139
<211> 340
<212> DNA
<213> *Homo sapiens*

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<400> 139
ttttttttttt tttttgaaat gagtaaatgg atagctttat ttgcatacag aaaagtgcac 60
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ttcaagtcgt tggttatagat gactgagtag gaagctgata gaaaattatg ccatataatga 240
tcaactatta ccattaaacca taaaaccaca ggactttcta cttggggctt atcaatagag 300
ggtcatgtgg cccctgtctt gtttagcttc tgagcatcac 340

```

<210> 140
<211> 334
<212> DNA
<213> *Homo sapiens*

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<400> 140 ggcctttgg ttccagaaaa atagagggga tctctgtgga gcctcttgg tttttcatca 60  
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tgaacacctg gctttttgga gttttattcc cattgttagcc cataatcaatt ccattactgg 180  
gggaggatgg accaattcga aagacgtgac aaaacattcc cacaatccctt aaaaggctt 240  
tcatttgagc atataaatgg ctagagaggc taagcagttt atgaccattt gtgttagcaa 300  
cttcagcaag gtttgttaga atcttttaggt actg 334
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<210> 141
<211> 497
<212> DNA
<213> *Homo sapiens*

<400> 141
tttaagggtta cacgattatt tattgagagc ctccctctccc cgcccttgca atctcttaggt 60
cactttctcc gttttagat ttgcgcgca agccccagaa agacggctgg gggcaggggt 120
gctcgctact gttcaatgag agccataatg tggctgttaac tgttttccts atattgcaag 180
aacactgctg gcagatccag ctccctcatat aggcgccttca cccggggccac ttctctcagcc 240
tccttctqcc cgtaattttc cttcaggatc tggtaactgtt ctggagtggt ccgttgtcaga 300

```

cactgaacca ccagccagct gcatttgttgc tccatggatgt cagtgc当地 360
acactgggggt ccccaaagag gtc当地ggtaa tcatc当地tgc当地 tctgaaagaa ctccccccatc 420
tccagcagga tcttcttggc attggc当地gtgc tcccttctc当地gc catcaat当地tcc tgccatgtac 480
atggc当地tgc当地cag ctatagg 497

```

<210> 142

<211> 353

<212> DNA

<213> Homo sapiens

```

<400> 142 ttttagagat ttgttgact ttattcaat ttgasatccg gattaaaata 60
ttttttttttt ttttagagat ttgttgact ttattcaat ttgasatccg gattaaaata 60
aaagcagtga gagcaaagct ttacaaatat tacattacta cgtcattgtat atggctttta 120
cacigtgg atacaggaaa aaaaaaaacc taacattaga attaaggcag taacaacatg 180
tgcacaaaaacc gcacacccccc tgacagtctt cagtagaaaa ctactctggc caggtggat 240
ctgacatggc tgcatgcagg tctattgca tggaaaggata ggccccgaag agcttcattc 300
ctttaaggggg aaaaggaccc ttctcactgg ccaacgatgg ccaggagcag ctt 353

```

<210> 143

<211> 559

<212> DNA

<213> Homo sapiens

<400> 143	atgcttcaca	cttgggttgc	ttatattgtat	catttaaaaa	gagatattaa	tcttacctat	60
	tgcgcataat	atttcattta	cattcattgtat	tgttttagcg	gatgttccca	tgaataataa	120
	actattgtca	tctgcataagg	actgtgtttc	ctggaaatct	actgctcttt	tatttgctat	180
	gtcgcccttg	tttcccgtata	aagcttattac	aatgtttagga	cttgcttgcc	tctgaagtgc	240
	ttaaaccaa	ttttttgttc	ttgcaaaagga	ctcccttattt	gtgatatatcat	atacaactat	300
	ggctgttgt	gctccctctgt	agtacattgg	tgttaggcta	tggtatcggtt	cttgaccacg	350
	tgtatccccat	atttcaaaact	ttactgtatgt	gtcatcaaga	catacagggtt	gggttagaaa	420
	agcagccccca	atggtaactct	cttggaaatca	tgacattggc	tttcacaaaa	caagcactat	480
	gtttgatttcg	caacagcgga	ctctcccaaga	gtactatgtt	gaactgcata	tntatccat	540
	gtatcgcccc	cgtgggtct					559

<210> 144

<211> 572

<212> DNA

<213> Homo sapiens

```

<400> 144
ttttttttcc ttttaaatgc ttcttttatt tcattggtg tacatgggt gagtgaactg 60
aatattacaa cccaaaacata gtattgatac aaattagact cctgtttaca ctgtaaaggta 120
atgaatgagg gaattctta agtgttacag aaagatttag tagaaatgtt accagtggta 180
tggctgaaag aatatttcgg tgaagtgctg ttatatcctg aaaaccaaga gtgaaatgtt 240
gttccccatac aagtggagag ttagtctctt aactacagta ttgttgaac tgatatcttc 300
atgtcttgg aattgggtat ttttggggta taattaaaca aagcattttaa gattttattca 360
tcatagtcag acttctgaat ataaaacaaac ttttggcaaa taatattttat acagaaaaat 420
agttttagat cctctcaaatt cccagaattta ttctataaaaa ttacatataa aataaaataaa 480
aagcaaaatc tggtgacat atatttgtac atctatgcat ttgccttgcc tcctcccttat 540
tgtaaatggc atattttatga ctctttgcat at

```

<210> 145

<211> 402

<212> DNA

<213> Homo sapiens

gtggtttaag ctatgtttat aaaatgttta attaaaatca ag

<210> 146
<211> 482
<212> DNA
<213> *Homo sapiens*

<400> 146	aatgggttgtt	ttggaaaagggg	gaagtgggca	cctcatgcca	60
agtagaaaca	aatgggttgtt	ttggaaaagggg	gaagtgggca	cctcatgcca	120
gggagattta	aaaatgagac	ttttcaagca	agcactgcct	atagcatatgt	180
gaaaatttaa	acctaattttt	aattatataat	aaagaactat	tttaaaaaat	240
agtaaaaaaac	tggtaatctg	tttacaaaagt	gcagcgtcag	tacagcaaac	300
aaaagattat	gttgttttc	tcgggcttta	aaactccccct	ggtttccatt	360
aacatttgagt	catccctgcat	acatgaaaag	cctgtgtaat	gaagcctggg	420
cctgtcttta	attaatttcca	acataagtga	gtatgagacc	tgngaagat	480
tctgtatgtat	gaggtacaga	ttatctgaat	aaaatttctg	acctggttat	482

<210> 147
<211> 489
<212> DNA
<213> *Homo sapiens*

```

<400> 147
tttttttaa cattcctaag tttctttatt cttcatagtt ttctaatgaa caaatagttt 60
gttttcttga gtaagattat aaaaaagtta accatttttc caaaaagtata aagacaaaata 120
aaatgtcgac tcataatac aattttttac atagcattaa aggtgcagat attgactgcc 180
ccttttcatt atgattggcc caccctttaa aaagactgca acagaggatt caattgtcca 240
aaatacttcg aagtacagaa attaaaatgct tttagccccata aacataatccc ttatcttattt 300
tgttgcttgg gaacacatga gcaaaatcta tcatttcgcac ttctacttca gcaatctctt 360
ggcaaccagt gggaaagatgg tagaaaaactt tntccagttg gggaaagtaca ttccatattt 420
aatgtttcttg tgacatgctt ttccacccat tgcgtttgcgc cagattttca actttcaatg 480
aagtctgac

```

<210> 148
<211> 372
<212> DNA
<213> *Homo sapiens*

```

<400> 143 taattttata ttatggcgt catacatcc ctgttaacgga agtgttaatt 60
tttacccctt ttttggacc ttttggaat ctaatgtatt gtaaggatt ttacacgtgt 120
ttactgtact ttttggacc ttttggaat ctaatgtatt gtaaggatt ttacacgtgt 180
cctgattttgc ccacaacccgt gatatttgcag ctatccaaagc ttttggaaaata aaattttaaaa 240
accccccaagc ctgggtgagt gtgggatatg ctgtgtgaga cctcttgctc agggtcgagg 300
gaggcgnggg ggggnnnnc cnnnnncct nnacttttnc cttcttctgc nnccangctct 360
tccagcttga gccccagttg gggggtatcc ttttaaggact gccttgccta gggctggggcc 372
cccccttcaa ga

```

<210> 149
<211> 491
<212> DNA
<213> *Homo sapiens*

<210> 150
<211> 455
<212> DNA
<213> *Homo sapiens*

<400>	150	catgttttaat	ttattattat	tgcaaaaagaa	cagttttct	catgatagg	gaaatagaaa	60
actcacaata	tacttaagag	tctgcaacaa	gttacataga	atcagaggca	cttcaaaggc		120	
ttaaaaagac	gtttacaact	taaatgcatt	ttaagaaca	aaaactggatt	tttcttttaaa		130	
ccttctatcg	taccccttcaa	ttgcaagaaa	ttaacaaata	cagtggccaa	aggaaatctgc		240	
agcaactct	taaaaatactg	ttaacatctt	tggtttgc	gaggcttgic	agtaacttac		300	
atcaaattccc	ccaaaaagaa	gatctgattt	gatagatatg	actaaacggt	tttgttagtaa		360	
taatccaatt	ttcacacat	atttgttgtt	gcaaattctgc	ccaaagctac	aggttaatgaa		420	
aaataaagca	agtgtaaaat	ggatagtctg	acact				455	

<210> 151
<211> 455
<212> DNA
<213> *Homo sapiens*

<210> 152
<211> 386
<212> DNA
<213> Homo sapiens

<210> 153
<211> 601
<212> DNA
<213> *Homo sapiens*

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<400> 153
tttttttatt ggcttggttt ttatccat gcttataaaa aaaatatgaa gtttccttgt 60
gtggactgaa ggggtgttag cctgtggatg ttggcttcg gtgcctgtac cccagtggt 120
gtttacattc caggccccctg ctaaaataag caggctccac tgccagctgt ctgtacactt 180
tttcttgggg gaagagtcc tgccttcagt ttactgcagt agggttccctg gctctgttac 240
atgcctcatgt gtcccgaaag aacatataatgaa atatcatccc acggatgacg atacagcccc 300
tgccttcagcc tcttcgtatc aagatagtgt ccaatgaacc ccatactccct tcccagcaca 360
aagatggcat tgaggggctcc aatgtcaata tattcatcag ctccctccccg agtaaaaggac 420
ccacaggtttc taagcatgtc tacaaatgcg actccgatgaa gaccatctac attcaggata 480
agatttggct tcctcgaggt gtaatccctt ctacttccag tgcataaatc gaggcagagag 540
tggccangga gtgcgtgcctt gcgtaatctt ttgagatctg cactcgcgtg ttctgggtgt 600
c

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<210> 154
<211> 340

<212> DNA
<213> Homo sapiens

<400> 154
gcgttttcat actctttatt gccaacggtt taaaatggtc aacataaaaa aaaaagacat 60
tttgataata aataactgctc ttggggctgt aataaataaa aagtttataa acaaggaatg 120
cactttcca gccacaagta tcctcaaaaa ttaatgaaaa aaaattataat atggccatag 180
ttcacagtta cgccagccaa agctgctcca attacagcct ttaaacaaca tgggagctc 240
ctcccttctc cctcccttc aggaagtata ttacagttc caaagtccctc tggctgaaat 300
gtctcaaca gagagaattt aagaatcaat gcaccccttctc 340

<210> 155
<211> 759
<212> DNA
<213> Homo sapiens

<400> 155
cctggcccta ctcatcttcc ttttctcac tgcgtgactt ttccctcactg 60
tcggacttct ttgtgtttt ggtttcagac ttctcaitctt tctttaaggc tgcttttgtt 120
cctttgtatt catgtgtgt aagggccctg aaggagtcaa tgaagcccac atcagcagtc 180
agatttggca agaaccaaaa gtgggtgcctt cttccagtt tgagccaaat gatgagaaat 240
agaatgcac gacaaacagc aaggagaaga atactggctt caaaacagcc tgccacccaca 300
ctgaggtaat aaacacactac ttcattttct gctggccaaa gggggaaagag ggtggccgct 360
attactgcaa tcacaagaat taatccatg acaaattgttt taaagtgaac tgggtcatag 420
atccatacat acacccatttccatccaga aaaaactgtat catcatgtgg ctaagtttga 480
atttttcttta gtttcccttct ttnttagat tccctggat ttcttctttt tgattcttct 540
tttccaccatc ttttntttctt cttttcttctt ttttggctt catccccat attnncttct 600
tgcctttta tcntctctt tcactntcag ctccctta tcttttctt tcctatgctt 660
atcatattca ttccatactt tagggggctg tgaaaaactg ctctaaaaac tctgtgagtc 720
accacaannt cccctgtgaa taagtntctt cttctgctt 759

<210> 156
<211> 703
<212> DNA
<213> Homo sapiens

<400> 156
tttttgagaa tacacagggc gctttattat acaaaatggc ggggtggggg gcggcaagca 60
gcggatggca tcaaagggc gagggttagt catgtggca acaggaagca acttcttagc 120
caggggccggg gggcggtgt ctggctggaa tctccctgg tcatgtggag ggtgccagcc 180
ggctggacccat gcagacccag gaagcgagat gggacgccta gggagccggg ccccttcca 240
caagcacctt ctcatcttc ccatgccccg tggccacaaa ttataacctc ttccctagatg 300
gggtgtctt aattttgtat gaggttttttgg agcctccctt ctgctccctag aggcttttct 360
tgctcatgtc tccagccaca atatcccttc aggacggagt ctggccgc gactgagcct 420
gtacccatcacc cgtctccac cgaacttttg tactggccac agccatgtg ggcaagctcta 480
tgaggccctg gcnnggctag ctgggggtcc ggcccagcgt ctcaatggc ctgggttatt 540
gttccagcca ctgatcaatc ctggagatgg gcaagtctt cctggatttc ttacacactgg 600
tactttctt tattggagcg tttagggac tgcgtctgtc natgaatttg gtgtnggctc 660
cagggaaagcg agctctggtc gatgtccctt caaaaccaag 999 703

<210> 157
<211> 757
<212> DNA
<213> Homo sapiens

<400> 157
cttgggtgtgt ccgtttttaga aggtcaaaact ttcgtgaag ctctttctt gcctcccttaa 60
gttcagcttc ttctcccttc acttcataa caaacatttgc ttcattttctt tcttctttctt 120
tctgcgttcc tcccaggaat tcatcttctt ttgcttcata tgcgtctctga agactgaagg 180
gtttgctgtc aggggtcagtgc tccctgaacc ccatctcttc aagcttacag cgtcggtaca 240
attcatagtg gcccgggtgtga gtctgtcttc gcaagtcttc catgttccacg cggatcagca 300
tctctcgaag ttccacaaaa tccgaatgtat ttcttcttc aacctgcacc acaccccaagg 360
ggtaactgcct ggcccttgcctt atcttggtc caatcttcac ctcttcgggtg ctgccaacca 420
ctgcaaatgg gagatggaca ctcatcttgc cgttaatctc tggccacccgtt tcttcattcag 480

tgggaaactg atatatctgg accccatggc tgaccagttc actcatgatc ttactcttga 540
atnngtgcaag ttatttttgc gcaatgtgtc agcttttgc aataatggga atgatgtcac 600
cttactgtcc agcttttca tggtgaccag atccccaggga octttagtgan tggcagtang 660
gggcaataag tagaggcaag gcatgaatcc tggtgtcatg gtatgtttag aagagacgt 720
taaatctcat tttnctctgc ngtangccct cgaactg 757

<210> 158

<211> 455

<212> DNA

<213> Homo sapiens

<400> 158
ggaagtaaaa aaacctgttt caggcttcat ttattgctac ataatgacta cttcaagggt 60
catctggccc gtcgtcagtc actcttagaa gtggtaaata cagtggata gtttggaaagg 120
aaaggaggaa aaaaataatg cattgtgata caaaaatattt acctacatataa 180
agatttataa aacattcaga atatgttctt gctataaaaaa caataactt aaatataagaa 240
gcaaaaagtc ctgaaggcacc cgcaattttt ttaatatcca ttttaatcagg gaaaactata 300
tatgtggata tataatacat acatatgtaa taatttgaga agaaaaaagg caaaattctg 360
attataatcc aaaaagagtt tatctaatta tggaggttagg tctccactcc aattatacaa 420
ataagttatc agttttatcc aaagaattat aagtc 455

<210> 159

<211> 486

<212> DNA

<213> Homo sapiens

<400> 159
tggttttctt cagccgcagt ctgtctgct ctgaagaaaa ttcttgact gctcagtgag 60
aaazacagca attcaaattt ctgtagatag acatccagtc gcttctgagt gagattcatg 120
gtttgttaaga gtttttcattt ttgactggct gactgtacat tctgttgctt agcaactgct 180
cttattttctt tcaggtatcc ttctctaaaca gactggaacc agtgaagtga atcaaactcc 240
cgatactgat ccaaaagctt tagaatgtaa gccacaccca tggcaaagcc atcatcagta 300
aaggcagctc caattttattt tttttttctt aattttttctt tgcaactaat ggaatgtct 360
acaaaagttga gggtcagagg gggacaattt atatagaat ttcggagatg tatatttttt 420
ggccttcgaa attctggagc aaaaacgtct acaagcattt tgaaatattt tgcgccttcg 480
gcagaa

<210> 160

<211> 638

<212> DNA

<213> Homo sapiens

<400> 160
ggggctccctc ttcaactttctt ttatcttcat catctgaaga ctcttccttg tttttttttt 60
catcttcatc actactagat tcatctgaca gaatttcagg acattttggtt cgcttagcct 120
tacttgcatttcc tccagaactg ttccggctct ttttactgcc tttgttacaa gactttttaa 180
attttcggcaa tggtttgcctt gaaacgctttt gatgcattaa gaaattcaag atccctttca 240
cttagttcaactttttacatcactt gatcttotcca aatcaagaac ctcaacagatg ctctttaaaca 300
tggcattttctt aaacttttttca aacattttttt cttttttttt atatggaca cttttttttt 360
caaatggaaa gcccactgaac tgacccacat tttttttttt tgaggacaca cagcctggcc 420
tggatggaaa cactttgtgt acatatctaa gatcatcgtt ttttttttttta cttagaaaaaa 480
catgtatgttcttca caaagcgtct gccgtttcc ttgtgtcatt gtaaaatgtct 540
ctctctgcag ggagagacgt gcattggcac ctctctactt tttttttttcc ctctttgcctt 600
cccgaaagaa cttttttttt tttttttttt ctttttttcc

<210> 161

<211> 845

<212> DNA

<213> Homo sapiens

<400> 161
gaatttggca cgagccgttc tggaggagtg gtatgtgatgtt ctatattttt catttttgtct 60
gccaatatttctt ttttttttttcc ctcttaagaga ggacaaaaag gtacccttat tggatattct 120

cctgaaggaa	caccccttttta	taacttcatg	gggtatgtttt	ttagcatacg	ctctcaatcg	180
atcccccttagt	tttattaaagga	atcactaaaaaa	caaatttttttg	aggagagigaa	ctcttaggcag	240
atctttttact	tcttgtgtctt	gaatctgtttt	tttaccccttgg	tggaaattttt	ctatggcggt	300
ctgaccaata	gtctggggcctt	gatccggat	ggattccaca	tgttttttga	ctgctctgtct	360
tnagtcatgg	gacttttttgc	tgcctgtat	agtaggtggaa	aagccacacgg	gatttttcncc	420
aagggttacgg	ccgaataaaa	attctgtctg	gattttatnaa	tggggcccttt	tccaaanagn	480
aaanagccgtt	ttttgggttt	angggagnca	agnggcaaga	tggattttggan	ccccccagggaa	540
ttaaggcgnc	ccacanngma	aacaccacgn	cccanttggg	gggngrnnnaa	nnnaaccctt	600
antgggaccn	gggncccttta	nccaaggccc	aagnccangcc	caggggggct	cnncaagggg	660
agnngcancn	aaannngggnc	aaaggncctt	caaacncarn	ggngggggnc	agggaccctng	720
ggggnggggc	aaccncgggg	tnnggggggg	gngnaaaacn	caaaaannnggg	gggnatccca	780
aaaggttggg	aaaaacccntg	gnaaaanggg	gggnccnncc	aaaggccnaa	aaangngtgg	840
ggggcc						845

<210> 162
<211> 496
<212> DNA
<213> *Homo sapiens*

<210> 163
<211> 491
<212> DNA
<213> *Homo sapiens*

<400> 163	taaggattaa	aaacgatttt	aattatacac	atatggtcac	aattttgcct	aaaaaagatt	60
gtggggaaat	gtacataagg	ccgcttgtaa	atgtacatcg	tgttactgtt	atgtctttagt		120
tccagaggaa	aaaatgttat	catacagatt	tgccttact	tgggagtagg	ctattcaaaa		180
atacagact	cttctgtaca	aagaaaaaag	tcacatcaca	tttaataaga	tgaaaaaaagc		240
atggcctcc	atggtaacca	aatatctcag	tccaatactt	tctattatgc	acaataccct		300
gacttcaatt	gaaagtgtatc	caaattcttag	caggtccata	ttaacagtca	acaactatgt		360
tataaaacaa	aatgatctca	caataataaa	aagaaagctg	gttcatactr	ctgaaaccat		420
ataaaagataa	aaaattttta	aaaaatcact	ctcgatttg	agaaataaaat	ttacattata		480
caacactata	t						491

<210> 164
<211> 457
<212> DNA
<213> *Homo sapiens*

<400> 164	tatgacactt	tattgtatgct	gggggggtgg	ggaggagacc	tggagaata	60
tgtgggggca	agagtccccca	ggtggggaca	ggaaaagtgt	tgaaggctgg	coactactgg	120
gcaggaaaga	cagagttgcc	actgtatgca	cagggatgta	gcagctgccc	gtactccagg	180
ggcagggtgcc	gctccacttag	cacgtgcagt	gagacttgggt	cagtgaccag	gcccgcgc	240
cgcattcagca	gctccagggtc	ctctgggttc	acagtcttc	ggccagcatg	agcagcaaai	300
acctccagat	catcacaaaag	atgctggaaa	tatttatcta	ggcacttctc	caccatctca	360
agagccccc	tctccatggg	catcttggca	tagaagctaa	agagtttac	atagtggctc	420
agtccagcct	tgtggggatc	ttggccggngc	ctgnngc			457

<210> 165
<211> 477
<212> DNA

<213> Homo sapiens

<400> 165	ttttagttttt cttcccaaat ggttcctcag cccccagtgcg gggccctcgaa 60
ataggcccag ctccctgtat agttcccaaca gagctggcca caccataagt cagggggcaaa 120	
ctggaaactgt gggaaaggagc tgcagctgt actttccctt cagttagago ctgaagctgg 180	
aggagctttt ttagcaagta cttttttttt ttttttgcgt taagaaaattt ttccctcaaga 240	
cgagcaattt catcacaataat agcagcattt tcaaaacacccg tggccttggc cgctttgcgc 300	
agccgcaggt acttcagccg gtactttctca ttctggctct tcttcgggag ctttttcatc 360	
ctggcccttgc tggacttgca cggagcccgcc ggcgaggaaag cgaggccgtc cagcaggctc 420	
atgggtccagc cccgctacgg gggccccagg acgctgccgg catcgatccc taagtctg 477	

<210> 166

<211> 468

<212> DNA

<213> Homo sapiens

<210> 167

<211> 399

<212> DNA

<213> Homo sapiens

<400> 167 tttttttttc tttaggtttat aatcagcatc atccatctcgaggctctttaatggct 60 tatatcccttctttaggagaa caaaatagcc atcatcttcggttcatcttaatttgtgg 120 tggactaagag aagccatttt ctttcttcctt ctatcccccagaggctcgaac 180 cttttctcttcttgcgttttccctgtcttgcgtttatgtttgtcttgcgtttctgaa 240 gcttccatcttgtgtttgg tcttcttccttctttgtgtttcttgcgtttatgt 300 ttcactgttg ctatgtttgg actttttcccg gnccttctcc tttctgggttctttgngcc 360 gnggtctcga tcctttggtttattttgttatgagaat 399

<210> 168

<211> 557

<212> DNA

<213> Home

<210> 169

<211> 564

<212> DNA

<213> Homo sapiens

<400> 169

acgacttggc catgtgaaa cagatgaaca attacagaat attataatcta aattcccttcc 60
tcctgttttg ctcaaaactct ctagcaccca agaaggagta cgtaaaaagg taatggaact 120
gctgggtccat ctgaataaaac gtataaaaag ccgccccaaa atacaacttc cagtagagac 180
actgttgggtt cagtaccagg accctgctgc agtttccccc tgcacaaaatt ttactataat 240
ttatgttaaa atgggttatac ctcgccttacc agtggaaaaa caatgtgaac tggcccttac 300
gttctttact gccatggaag ggaaggctca gccacagcag gatagctta tgcatcttt 360
aatascaacc ctttttcaaca tgaataccs tggtaatca tcaaaatcaag cttctccatt 420
taatcttgtt gagaaaccaa agactgtgca gctgttttg gacttcatgc tagatgttcc 480
tctgatgcct tatggtttacg tggtaatga atccagatg cgccaaaatt catcttcagc 540
acagggttct tctttcaaca gtgg 564

<210> 170
<211> 457
<212> DNA
<213> Homo sapiens

<400> 170
gattgtatgg tgggggtggtg acctattttt acaaattata cctaatgagt aaaatttttg 60
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cttgggtttt atgatgcagt atataagtgg tgaacaataa ctgacagttat tgggtttgtt 180
gtacatgtct ggtcttttga aacagatttt agtaaggattt ttccagaggtt aaaactgtgt 240
ccttattttctt atttttttcc tagggcaaaag tagacaggaa ttattttttt gaatcttattt 300
ccaaattttat attttttttctt tgggtttttc tacactttaa ggccatttttgg tgcaatttttag 360
aaagtgttgg cttcccttcc gctagccaca ttcanaatta acttccaaaaa cctcaggaac 420
agtacaaaga attgaaaccc tcaatatggc agcacag 457

<210> 171
<211> 527
<212> DNA
<213> Homo sapiens

<400> 171
ttttttttt gatggatact aagggagttat ttactgaaa aaaatagaaaa actacatttt 60
tacacgaaat aaacttatgt ctgcaataact cagcttaaa ttccccccctc acttcagaag 120
aggtcccagg ggcaggaata acacgcacag attttttgtt cacgacttcc agccgggtcca 180
ccagacctct ggccaggtaa tactgtacaa agtgccttca cgtgattttt ctccaggat 240
ctcgaaaata gaggttagaaa atccccatgg caacgcctgc ccccaaaaagg gccagactgc 300
gaaaatccctc gtcatcccag gggaaagtccc ccctctgc tccgccttcca ccaggcaacg 360
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ccagtctctt tgggtggttt tgaacacagc caccaggaaa ataacgtcgg tcttgcctgc 480
agagtcagct tctgaacgtg gatccccctgg aagcactgga acaggag 527

<210> 172
<211> 546
<212> DNA
<213> Homo sapiens

<400> 172
cgccacgggg gacaacgcacg cctgataaaac aagtggacga cttttcttaa ggccagactg 60
atttgcctaa ttccctggaaat tgatggggca gatacttact ttgatgagct tcaagatatt 120
tattttactcc ccacaagaga tggaaagaaat cctgtgttat atggagttttt tactacaacc 180
agctccatct tcaaaggctc tgctgtttgtt gttgtatagca tggctgacat cagagcattt 240
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agaattccctt atccacggcc tggtacatgt ccaagaaaaa cctatgaccc actgattaag 360
tccaccccgag attttccaga tgatgttactt agtttcataa agcggcactt tggatgtat 420
aagtccgtat acccagttgc aggaggacca acgttcaaga gaatcaatgt ggattacaga 480
ctgacacacaga tagtgggtgga tcatgtcatt gcagaagatg gcaagtgacga tggatgttt 540
cttggaa 546

<210> 173
<211> 710
<212> DNA
<213> Homo sapiens

<210> 174

<211> 409

<212> DNA

<213> Homo sapiens

<400> 174

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ggcacgagca ttactacatg tccacaggas gtacaaaags caccctttt
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aaagttagct gccacagttt tggaaaatgc cagtgttttaa aaataattgt
caaaagtttta gcgttaacaga ttttgagttac ttcaaaaccat tcaatgttac
gaaaatacca ttctttggtc tagatttagct gttcccttta cattaattttt
ggcttttga aaactttaaa aatgttgaaa ctcacttagac aaaacaaaaa

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<210> 175

<211> 410

<212> DNA

<213> Homo sapiens

<400> 175

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ttaactgga	gaaaaaaaca	gaagacatac	atctttgtct	gagacaaaat	ctggagatata	180
aatgaggatga	agaagaaaaat	ggatcctggc	ttccccaagc	tcatcgcaga	tgcctgaaat	240
gccatccccc	ataaacctgga	tgccgtcggt	gacctgcagg	gcggcggtca	cagctacttc	300
ttcaagggtg	cctattacct	gaagctggag	aaccaaagt	tgaagagcgt	gaagtttgg	360
aqcatcaaat	ccgactggct	aggctgctga	gctggccctg	gctcccacag		410

<210> 176

<211> 473

<212> DNA

<213> Homo sapiens

<400> 176

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cttgggcacg	acacaatcag	aatttagttt	ttttctaaaa	ttcagagtat	ctgggatttt	180
aaaagttagca	ctttttaaaaa	agtccacaaa	gtcacataac	actttaaaaca	tcaaaaaaagc	240
tttttgtaaaa	aaagctcagc	ttttaaatca	cgttttggtt	ctgcaaattt	gggagacaaa	300
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aaatggcagt	gcctccctt	ccgcgcctccc	taggaccaca	ccaataacca	gctccccaaagc	420
acaagttctt	gtccccattt	ttttctgttagg	ggtggggggtg	ggaccttcag	gct	473

<210> 177

423

<212> DNA

<213> Hom

<400> 177

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cgctgcgccc gcctcccgcc gccccggccc acggctgagt gcgccggcgtc agaggccccca 180
agtccatctc actatttaca gatatgtttac agggccggat ggtcacagag gaaagccccag 240
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caggagtggg ccgtgatgtc gtgtgtcttgc taegccggct cgtccaggtc cagcagccctc 420
cg3 423

<210> 178
<211> 304
<212> DNA
<213> Homo sapiens

<400> 178
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cgttttgcc ctctgtcaca taacttggaa actgcctgtat ggctttttgt cagtggttcc 120
ctccaggaag ccttgcatttc agtttgaagaa gttttttctt ggcattccaa tgccctgtc 180
agttccatac tcctcagaca cccttaacaa aggctgtcat gcacacaaatg tgacaaataac 240
acaaaataaa tgataattac actaataatg atatgttcag agggggcactg gccagggtcca 300
caca 304

<210> 179
<211> 541
<212> DNA
<213> Homo sapiens

<400> 179
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gcaagtgtgg ccaagaagag catgtgtcc tcttgagcaa tgaagaggat cgaaaagtgg 120
gaaaactttt tgaagacacc aagtatacca ctctgattgc aaaactaaag tcagatggaa 180
ttcccatgtt aaaaacgcaat gttatgtat tgacaaatcc agttgtgtcc aagaagaatg 240
tctccatcaa tacaggtaacc tatgagtggg ctccctctgt ccagaatccaa gcattggcca 300
ggcagttacat gcagatgtca cccaggaaa agcagccagt agcaggctca gagggggcac 360
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gcatgagtt gtctcccaga gaggtgaagg agatggagca gtttgtgaag aaatataaga 480
gccaaggctct gggagtagga gatgtcaaac ttccctgtga gatggatgtcc caaggccccca 540
a 541

<210> 180
<211> 685
<212> DNA
<213> Homo sapiens

<400> 180
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aagaataaaag gagatgtga agaaacatcc tcagtttatt ggatatccca ttactttttt 120
tgtggagaag gaacgtgata aagaagtaag cgatgtatgg gctgaagaaa aggaagacaa 180
agaagaagaa aaagaaaaag aagagaaaga gtcggaaagac aaacctgaaa ttgaagatgt 240
tggttctgtat gaggagaag aaaagaagga tggtgacaaag aagaagaaga agaagattaa 300
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agatcacttg gcagtgaagc atttttcaat tgaaggacag ttggaaattca gagcccttct 480
attttgtccca cgacgtgctc ttttgcattt gtttgaaaaac agaaagaaaa agaacaatat 540
caaattgtat gtacgcagag ttttcatcat ggataactgt gaggagctaa tccctgaata 600
tctgaacttc attagagggg tggtagactc agaggatctc cctctaaaca tatccctgtga 660
gatgttgcaaa caaagcaaaa ttttg 685

<210> 181
<211> 207
<212> DNA
<213> Homo sapiens

<400> 181

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ggtgtggc tgcctgctc tacgcctcca tccacaagat tgaggaggcg catctggcg 120
tgtactacag gggaggagct ttactaacta gccccagttt accaggctat catatcatgt 180
tgcccttcata tactacgnct cagaatc 207

<210> 182
<211> 530
<212> DNA
<213> Homo sapiens

<400> 182
aaatcattt ggtcacgga cacccaggta agcactcaac agttccagaa tgagctgttt 60
cagtcgtccc agcatgtccc caacacccctc tgatcgctgc agatcaccccg gaatgtttga 120
acccttggc agctctagaa caccatgtc tgcctgcag caagccggcg gctccatgtat 180
ggatggtcca ggtccccgaa tacctgacca ccagagaaca tctgtgcggag aaaatcatgc 240
tcagtcagg attgcacttg ccctgacagg tatcgttgc ggcacccgtc ggcctccctcc 300
gtcctatgtct gctgtggcc ttgctgcaag aatgtcccgag gttccagccc cggtgtccctct 360
catgagtctc agaaccggcac cagcagccaa ctttgcggc aggattttttt cagccctctgc 420
ggcagccatg aacccatgcca ggcaggac acctggcatt ccaacagcag tgaacctggc 480
tgactctcga acggcaggctg cagcagccggc catgaacttg gccagccccca 530

<210> 183
<211> 526
<212> DNA
<213> Homo sapiens

<400> 183
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aagattttt aaattacatc aggaagacca ggcttgcata acttgcctta ttcttgcttg 120
ctccactgtc gcctgtgata gagaagtata tgcctggctt acttcgggctt tcttttaggtt 180
tggtgtgaa gcacagatga gatttccaaac cactttcccg cttccaaagta atgttgttcc 240
catcttgggg tcttcgtctt attctatgtt tcctgttttctt agtggtagtc cctatccaaa 300
tcacatccctt ttggggacac cgtctcatgg tatacagccctt cctgccaatgtt caactccagt 360
gtgtgtctgtt ggaaacccag caactcaggc cacaatatgtt agttgtgttga ctggaccaga 420
gattgtgtac tctggaaaac acaatggat ttgcattttac ttttctcggaa tcatggaaa 480
catttgggat gcaagcttag ttgtggagag aatattcaag agtggc 526

<210> 184
<211> 612
<212> DNA
<213> Homo sapiens

<400> 184
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cccggtggagg agaagaagaa gatccagat ccagacagcg atgacgttcc tgaggtggac 120
gcgcggcaca tcattgagaa tgccaaagcaa gatgtcgatg atgaatatgg cgtgtcccg 180
gcccttgcac gtggcctgca tgcctactat gccgtggccc atgctgttcc tgagagagtg 240
gacaaggcgtt cagcgttataat ggtcaatgg tgcctcaaaatc agtaccagat caaaggtttg 300
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aatggggctt tcctcatcat cgtgccttc tcaacgtgtt ccaactgggc gtacgagttt 480
gacaagtggg cccctccgtt ggtgaagggt tcttacaagg gatccccaggc agcaagacgg 540
gcctttgtcc cccagctcccg gagtggaaag ttcaacgtct tgcgtacgtac gtacgagttt 600
atcatcaaag ac 612

<210> 185
<211> 433
<212> DNA
<213> Homo sapiens

<400> 185
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agatcatgtat aatgtttttac atcacatttt acagcatttt atttttatca gtatttgttag 120
aaaacaagga tgctgagttc ttgaacactg cagtcacaaa cttcaacactt aattttccaaa 180

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aaaagggaaag aaaacactga actacttgtt caactgaaca tctgttaataa taaatgttaac 240
gaaacctaac caaataaata tgccactgag atcacaactg aagtgtatgg ttttttagtgt 300
gtgccagaga cattaaatta ttcaatcagt ttttgactac aaccctaaagg aaagcatccc 360
ctctgtttcc ctgaatgattt atttctaaaag taaccttaaa aaggagaaaa ttgtctgggta 420
aagagaattt ctg

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<210> 136
<211> 377
<212> DNA
<213> *Homo sapiens*

<400> 186
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aaatttgcacc acttttaattt aggcttttag ttacattttggccaccccaa agtagttgtt 120
acatttaggtt ggtcaattttt aatactgtgg ctccccgttgatagacaca caatctttac 180
atccaaacat taatgcatac aaagcaacaa ggcatgttta aaaaaaacag caatagtttac 240
tgcaaaatttgccttgcac caattacata tgattaaaat tactttccac attcacatcc 300
acagtnactc gtccaccatc taacatctca ccaannacgt tacacatgttgaacaatcac 360
taacaggcaa aaatact 377

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<210> 187  
<211> 413  
<212> DNA  
<213> Homo sapiens
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<400> 187
gctgttaggtc gaggggaaga cttagactcc ttctttatat tgggttttcct tgaggcccttgc 60
gtggctgtctt tgtgtctgtc ggaggggcatg ctgcttagcca agtctacagg ggtttcaactt 120
tctatcttcga ggcccttcacg aggctttca gcagctgccc tcttcagccct ttgggttgtgt 180
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ccacgcggcac ttctgtatcc cttttggatg tttttggagt ctctgtccccgg agtagcgaa 300
ctctgtttctt taggtccact tgatctcaatgt tagctatccc cagtgccctg ctctcgccct 360
ttctttttgtt agcccttgaga tgatgggatg ttactgtccca ctgaagagggc ggg 413

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<210> 188
<211> 378
<212> DNA
<213> *Homo sapiens*

<400> 188	ctgaaaaagcc atctttgcat tggccctcat ccgcctccctt gccccggca gtcgcctccg 60
	cgcgcgcgcctt cctccggccgc cgccggactcc ggcaggctta tcgcacagagt ccctgaactc 120
	tgcgtttctt ttatatcccc tgcatcgat caccggcggtg ccccccacatg tcagacgcag 180
	ccgttagacac cagctccgaa atcacccacca aggacttaaa ggagaagaag gaagttgtgg 240
	aaggaggcaga aaatggaaaga gacgcggcttg ctaacgggaa tgctaattgag gaaaatgggg 300
	agcaggaggc tgacaatgag gttagacgaag aagagggaa aggtggggag gaagaggagg 360
	aggaagaaga aggtgtatg 378

<210> 189
<211> 545
<212> DNA
<213> *Homo sapiens*

<210> 190
<211> 648
<212> DNA
<213> Homo sapiens

<400> 190
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ggggaaaggga gtcgcccaggc ggccgtcatg gccgtgtcg agagccagcc caagaaaatg 120
gttgtccaagt acaaatacag agacctaact gtacgtgaaa ctgtcaatgt tattactcta 180
tacaaagatc tcaaaccgtt tttggattca tatgtttta acgatggcag ttccaggggaa 240
ctaataacc tcaactggAAC aatccctgtg ctttatAGAG gtaatacata caataattcca 300
atatgcctat ggctactggA cacataccca tataatcccc ctatctgttt tgtaaggcct 360
actagttcaa tgactattaa aacaggAAAG catgttgatg caaatgggaa gatatatctt 420
ccttatctac atgaatggaa acacccacag tcagacttgt tggggcttac tcaggcatcg 480
attgtgttat ttggagatga acctccagtc ttctctcgtc ctatccggc atccatatccg 540
ccataccagg caacggggcc accaaatact tcctacatgn ccagcatgcc aggtggaaatc 600
tctccataacc catnncgata cnctccanc cccagtgggt acccagct 643

<210> 191
<211> 339
<212> DNA
<213> Homo sapiens

<400> 191
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acaccaagag gactgtgcag agatgaggaa gacacctttt tgtaatcact ttctaaattc 120
aatgtcaagt ttccacccat ggacaatgac tcaactttct tacatagcac tccagagaga 180
ccggcatcc ttagtctgc caagtctgag gcagttgtgcc aagagaaatt taatatggag 240
ttcagagaca acccaggggaa ctttggtaaa acagaagaaa ctttatttga aattcaggga 300
attgacccca tagtttcagc tataaaaaac cttaaaaca 339

<210> 192
<211> 252
<212> DNA
<213> Homo sapiens

<400> 192
tgatagtgtat ggatggacgc cgctgcactg cgctgcctct tgtaacagcg ttccacctctg 60
caaacagctg gtggagagtg gtggccgcat ttttncctca accataagcg acattgaaac 120
tgctgcagac aagtgtgagg ngatggagga aggctacatc cagtgtctcc agtttctata 180
tgggggtgcag gtgaagctgg gtgtgtatgaa caaaggtgtg gcnnatgttc tggggacta 240
cgaggcccag aa

<210> 193
<211> 272
<212> DNA
<213> Homo sapiens

<400> 193
gacaaacagg actacccgca gcccctggac ctgtccacct ttgtaaaacga gaccaaatcc 60
atgtccacccca ctgaggagtt ggattacaga aactccatg aaattgaaata tatggagaaa 120
atgggtctctt ctttacctca ggacgacgat gccccgaaga agcaggccctt gtaccttata 180
tttgacactt ctcaggagag ccctgtcaag tcacccctccg tccgcatgtc agagtccccg 240
acgcccgtgtt cagggtcaag ttttgaagag ac 272

<210> 194
<211> 334
<212> DNA
<213> Homo sapiens

<400> 194
gaganccctgg aaaaattaac cacatgagan acgatcacat agcccagagtg ttgacgttgg 60
gaaatatccg cnctggcaac aaaatgttg tttatggaaac gtgtgcaggc ttgggtgttgg 120
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gaccgttcg ggcagcaaca gcatgtttt gatccccaa atctttttc agtggtcttt 240
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ttatcttcag agccaaaaga cagtgtttt gttt 334

<210> 195
<211> 352
<212> DNA
<213> Homo sapiens

<400> 195
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tatctgtaga ttcaaaaagg agcaagccac attgtcctca ctgtccaaatg tgtcaggctt 120
ggcatacatg atggagatta atgaagtatc atgagagttaa tatggttctt gaaaagcttc 180
tacaatttgg agtagggctt taatcacgtg aaaaaggcaaa ctgttcacat tttagtgaacc 240
tgcattttcat ggagggggggg ggttacacan tatttttaatt taaaacaaa taaaaataat 300
ttttttgtca aagattccca tctccccaaac ttttttgtc gcattttgtt tc 352

<210> 196
<211> 355
<212> DNA
<213> Homo sapiens

<400> 196
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tctggatatt tattttataga ctcttgacca agcaataatg aaatttcaca gtatgaaaat 180
ggaagaaaatc aataaaatata tacgtgaccc gtggcgaagt acctatcgat gacaagatat 240
tgaatatacata gaaatacgtt ctgtatgcga tgaaaatgtt ttagtgcgtg ataaaaggcg 300
gaattataaac taccgagtgg tgatgctgaa gggagacaca gccttggata tgcgta 355

<210> 197
<211> 456
<212> DNA
<213> Homo sapiens

<400> 197
gcacgagtct acatccagag gaccaagagc atgttccaga ggaccacgta caagtatgag 60
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cccatgcgtt ttatgagag cattcaccc cagctgcggg agaaatatgg ggacaagatg 180
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ctggacctca cagagcagga gttccggatc cagttt 456

<210> 198
<211> 422
<212> DNA
<213> Homo sapiens

<400> 198
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acttcgttag aaaaaaaaaa cacttggcat acaaaaatatt taagtgaagg agaagtctaa 120
cgctgtactg acaatgttgg gaaatggat atgtttttatg aacatccaaatg tctttcttctt 180
tttttaatgtt gtcaaagaag cttccacaaa attagaaagg acaacatgttgc tgagctgtaa 240
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attcagccag cttaaacccca tacaatgtat gtacaataca atgtacaattt atgtctcttg 360
agcatcaatc ttgttactgc tgattttttt gcttctactt tcattttttaaa 420
ct 422

<210> 199
<211> 446
<212> DNA
<213> Homo sapiens

<400> 199
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<210> 200

<211> 581

<212> DNA

<213> Homo sapiens

<400> 200
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<210> 201

<211> 625

<212> DNA

<213> Homo sapiens

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<210> 202

<211> 806

<212> DNA

<213> Homo sapiens

<400> 202
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agaatacttt gcntcatagt antggagcac agttacngct caatttggag cntgtggaat 780
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<210> 203
<211> 489
<212> DNA
<213> Homo sapiens

<400> 203
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<210> 204
<211> 403
<212> DNA
<213> Homo sapiens

<400> 204
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ggaaaaangt taccanaaga aaggggttca agaaaaagga tca 403

<210> 205
<211> 462
<212> DNA
<213> Homo sapiens

<400> 205
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<210> 206
<211> 724
<212> DNA
<213> Homo sapiens

<400> 206
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taaagcaaaa taaaaagctt ggcgaattttt ctcattttt acrrttacta aatcaaataaa 480
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<212> DNA
<213> Homo sapiens

<400> 211
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<210> 212
<211> 457
<212> DNA
<213> Homo sapiens

<400> 212
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tggagaagtgg gctgttctga agagagatgg gcgatataata tattacttga ttacaaagaa 420
aaggggcttcg cacaagccaa cttatgaaaa cttacag 457

<210> 213
<211> 727
<212> DNA
<213> Homo sapiens

<400> 213
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tcacgaaggat gacgagccat ttccctccctc atattctgaa tttcatccgt caggcggcca 360
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atttcctt 727

<210> 214
<211> 622
<212> DNA
<213> Homo sapiens

<400> 214
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caaagaaaaga aaaaactaaag atgatgaagg agcaactccc attaaaaggc ggctgttttag 180
cagtgatgatgag gagcacacactg tagacagctg catcagtgcac atgaaaacag aaaccaggaa 240

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tgctttatct ctcagttgtg gc 622

<210> 215
<211> 448
<212> DNA
<213> Homo sapiens

<400> 215
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aaaatatttg gtggcccaa aaaactctct taaaattca gcagcttac 180
accgtattct atttaaaatg gagatctgt agcacagatg tagacttcaa gaaatatcaa 240
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tggcaggatc aggaaacatc agatttaaag ctttaagca taactcatac aacctaagtt 360
gtcagcagaa agatccagtt atatttgtaa ctaaagctaa tgctactaaa ttatcgacc 420
caatgttaac atattaagtg taaaactg 448

<210> 216
<211> 595
<212> DNA
<213> Homo sapiens

<400> 216
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ctgtccagtg tttgttccatc aactgttcaa gcagttttg aggagtgtcc ttttctttca 180
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gaccacaaac taattttta ttcaatagac agtaaacatt taatgggtgc ctgtaatgtt 300
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aattaggggca cttgagtggaa attcgttaaag gtctccatat ataaaagttt ccagatgcct 480
gaagaatgtt ttccaaacaa ttctacaaa atgtatgaga gcatggcagt acacgaggat 540
cttcaaaaat actataacat atgggacaag ttaactcttgc ctcanaatttgc 595

<210> 217
<211> 153
<212> DNA
<213> Homo sapiens

<400> 217
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accttactgg cgtcatgaga gggctccacc ttgactcgga tggggctgggt gggcggtggcc 120
tggtcagcaa agaggaccat aatgggtgttag ctg 153

<210> 218
<211> 446
<212> DNA
<213> Homo sapiens

<400> 218
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ccccgttgtat cgtccacaac atacagaatg gctgtcatgg tccaaatctgt acagaatacg 120
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gagaaatctc caacctgtcg gtggct 446

<210> 219
<211> 581
<212> DNA
<213> Homo sapiens

<400> 219
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gaaggagaga aaacagatcc gctagcagat ccgctatccg t 581

<210> 220
<211> 372
<212> DNA
<213> Homo sapiens

<400> 220
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ccatcttca tggactactt tgataagcaa gacttcaaga ataagagtc cgaaaactgt 180
aattcagaaca tgcataacc cttccctatg tccaaaaacg tttttccctgg attaactggg 240
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aggaacttac caggttgcgg gtttttttgg gcacttggga ccccatgtt tggggaacgg 360
ggnggtttagg ga 372

<210> 221
<211> 448
<212> DNA
<213> Homo sapiens

<400> 221
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caggctgtatc tcaatctatt tttgtatgt atcattaaca aattttttttt ggaaaagata 360
aaaatattgc ccctgataa taaatctttt tttcctttga tgcaaaacagc tagaacaccc 420
ttttctttttt tttttgtata ttctaaaga 448

<210> 222
<211> 373
<212> DNA
<213> Homo sapiens

<400> 222
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gggctatctg atg 373

<210> 223
<211> 386
<212> DNA

<213> Homo sapiens

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 ctgccacgtg cccccagatgt gtgatagcct ccccccgtac gaaaccaccc atgtttttgg 360
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<210> 224

<211> 593

<212> DNA

<213> Homo sapiens

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<210> 225

<211> 477

<212> DNA

<213> Homo sapiens

<210> 226

<211> 299

<212> DNA

<213> Homo sapiens

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gctgaggctg gtgtgccata tgacatgtg ttggaaatgg atgagatcaa coatgatttt 180
ccagatactg atttggctt tctaattggg gctaattgaca ctgttaattc acgagctcaa 240
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<210> 227

<211> 390

<212> DNA

<213> Homo sapiens

<400> 227 gagtgaagga gttgaaactt ttcttggttag tgtacaactc attttgcgcc aattttcaca 60
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catgttcaaa tggttgaaat cccacaatgt tagacccaatc ttaagtttcg taagttattt 130

ccttttaagat atatatataaa cagaaaatcta agtagaactg cattgactaa ccagtccctc 240
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tcaatgtctc cacagactgg gtagcaaaaa aatcaccttt tagtttttagt ttttaatcta 360
aagatgttag acagatgtcg agtgtgcgtt 390

<210> 228

<211> 423

<212> DNA

<213> Homo sapiens

<400> 228

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gat 423

<210> 229

<211> 417

<212> DNA

<213> Homo sapiens

<400> 229

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<211> 441

<212> DNA

<213> Homo sapiens

<400> 230

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<211> 333

<212> DNA

<213> Homo sapiens

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<211> 402

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<211> 359
<212> DNA
<213> Homo sapiens

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<211> 306
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<210> 237
<211> 395
<212> DNA
<213> Homo sapiens

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<211> 369
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<211> 248
<212> DNA
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<211> 288
<212> DNA
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<213> Homo sapiens
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 <212> DNA
 <213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 4337
<212> DNA
<213> *Homo sapiens*

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<212> DNA
<213> *Homo sapiens*

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<212> DNA
<213> *Homo sapiens*

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<210> 291
<211> 3800
<212> DNA
<213> *Homo sapiens*

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<211> 1731
<212> DNA
<213> *Homo sapiens*

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<211> 3416
<212> DNA
<213> Homo sapiens

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<211> 1927
<212> DNA
<213> *Homo sapiens*

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<210> 316
<211> 8213
<212> DNA
<213> *Homo sapiens*

<400> 316
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 aatttttttttgc ttttttttttgc 8040
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<210> 317
<211> 572
<212> DNA
<213> Homo sapiens

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gcgactccta	cgtggagctg	agccaggtaacc	cgttatatgt	tggaaatctt	tctttttaca	180	
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caactgaga	acaatctat	gaactcttca	gcaaaagtgg	tgacataaaag	aaaatcatta	300	
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tttgtcacaga	ctggggacgcga	ggctttttagg	agggcaggca	atacggccgt	gggcgatctg	480	
ggggccaggt	tccggatgag	tatcgccagg	actacgatgc	tggggagagga	ggctatggaa	540	
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gttgaatttg	ctgaagaaca	tcaccaaag	tc				

<210> 318
<211> 338
<212> DNA
<213> *Homo sapiens*

<400> 318
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 gaagaagaat ttggacgcgtg gatgtttcat actactcaga tgataaaaggc gtggcagggtg 120
 cagatgttga gaagagaagg cgatggcttag agaggccttgg aggccccggca ctgtatgtta 180
 ttccgttgtcc tcaagataaa caatccttta attactgtcc gatgaaatgtt tgcaggctt 240
 tgaggaggtt tttgggggtt cagataatcc tagggagttt cagggtcaaat atctaaccat 300

tttaccagaa ggatgaggaa aagtgtcg cttatgtc

<210> 319
<211> 451
<212> DNA
<213> *Homo sapiens*

<400> 319	tttaaatgat aaacttttat tctgaatata ctgttttgc acaagattta 60
acacaacatt	tctgggatt ataaaatattt tataacagta ttataaaaaat ttttacaaaa 120
tgtttttatc	aggcttaggta attttcacaa aagtgtcaag agaacaaaaat aaaggggaga 180
aaagatctat	tgttcacaaa agccaggttgg cttttgcat gaatgcacac cattttata 240
aaagtatccc	taaaaagcatg atccgacact catacaacac aacaaaaaaag acagtttac 300
taggtcacat	tataaactca actggcatct acacaagaca gtatcccatt agtttcagt 360
gaatttgaga	taacttgtgt gaactagaaa taaggttagat gaagagtgt ccaatttttc 420
naaaaatctgg	aattttttt cacactccaa n 451

<210> 320
<211> 359
<212> DNA
<213> *Homo sapiens*

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<400> 320 gcctactgca ccggccgacca caacgtggagc cccaaacatct tcggcctgggt ctacaggggag 60
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gaggccaaaga aactggccca cgccatgatg gaggccttca ggaagacttt ccacagtatg 180
aagagcgacg ggccggatcca cagcaacagc tcctccgaaag aggtttccca ggaattggaa 240
tcggatgatg gctgaatgaa ctttnagacg cttnagacaa ggcagcattg gtcaacgggggt 300
tcaagggaat tagatttgatg aagcaacgtt tcaaatttgg gatgaaaagat ttccaaattt 359

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<210> 321
<211> 295
<212> DNA
<213> *Homo sapiens*

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<400> 321 atggggccgca acaagaagaa gaaggcgagat ggtgacgacc ggccggccgag 60
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gctcggttctt agcttcgacg aggagaagag gcccggagttac ctgcacaggct tcacacaagcg 120
gaaatcgag cggaaaaggcagg cagccattga ggagatataag cagcggcttga aagaggagca 180
gaggaaatctt cggggaggaggc gccaccaggatatactttaag atgcgtggcag agagagaaga 240
ggctcttngag gagggcagatg agctggacgg gtgggtgaca gcaaagacgg agtcg 295

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<210> 322
<211> 406
<212> DNA
<213> *Homo sapiens*

<400> 322	caaaaagctg gtngcctcca gacccgactt tttcaaccag gagcaccaga cacgggatgt	60
ggacttgttc ctacacaacag gagaaggttt caggttgctg gngnagagg ggctcggggg	120	
gggtacatgg agcacgtgtt ccggcacgctg gcccggagac tctttgaaat ccatgtggct	180	
gagggttacct acaaaccctt gaggaacaaa gacttccagg aggtgacact ngagaaggag	240	
ggccagggtgc tgctgcactt cgcaatggcg tacggcttc gcaacatcca gaacctggtg	300	
cagagggtca aacgaggggcg ctggccctac cactacgtgn aggtcatggc ctggccccctca	360	
ggctgcctga acggcgggggg gccagctcca ggtcccagac aaggcc	406	

<210> 323
<211> 489
<212> DNA
<213> *Homo sapiens*

<400> 323 tttttttttaa cattccctaaag ttcccttattt ctccatagtt ttccataatgaa caaatagttt 60

gttttcctga gtaagattat aaaaaagtta accattttc caaaagtata aagacaata 120
aaatgtcgac tcataatac aatttttac atagcatata aggtgcagat attgactgcc 180
ccttttcat atgattggcc caccccttaa aaagactgca acaggaggat caattgtcta 240
aaatactttcg aagtacagaa attaaatgtt ttagccata aacatattcc tcatctattg 300
tgttgcttagg gaacacatga gcaaaatcta tcattcgac ttctactica gcaatcttt 360
ggcaaccagt gggaaagatgg tagaaaactt tntccaggtg ggaaagatca tttccattta 420
aatgttcctg tgacatgtt ttccacccat tgcattgttc cagatttca actttcaatg 480
aagtctgac 439

<210> 324
<211> 491
<212> DNA
<213> Homo sapiens

<400> 324
taaggattaa aaacgattti aattatacac acatggtcac aattttgttt taaaaagatt 60
gttggggaaat gtacataagg ccgtttgtaa atgtacatcg tggtaactt atgtctttagt 120
tccagaggaa aaaatgttat catacagatt tgcttotact tgggagttgg ctattcaaaa 180
atacagtact ctctgttaca aagaaaaaaag tcacatccata ttataataaga tgaaaaaaagc 240
attggccccc aiggttaacca aatatcttag tccaatactt tctattatgc acaataccct 300
gacttcaatt gaaagtgtatc caaattttag caggttccata ttaacagtc acaactatgt 360
tataaaacaa aatgatctca caataataaa aagaaagctg gttcataactt ctgaaaccat 420
ataaaagataa aaaattttta aaaaatcact ctcgatttgg agaaataaaat ttacattata 480
caacactata t 491

<210> 325
<211> 546
<212> DNA
<213> Homo sapiens

<400> 325
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atttgcctaa ttcccttggaaag tgatggggca gatacttact ttgatgagtt tcaagatatt 120
tatttactcc ccacaagaga taaaagaaat cctgttagat atggagtctt tactacaacc 180
agccccatot tcaaaggctc tgctgtttgt gtgtatagca tggctgacat cagagcagtt 240
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aagtccgtat acccagtgtc aggaggacca acgttcaaga gaatcaatgt ggattacaga 480
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cttggaa

<210> 326
<211> 456
<212> DNA
<213> Homo sapiens

<400> 326
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atgattaaaca agcagaatga gcagatgcac ggcgttgtgg ccatggccctt caccatgtac 120
cccatgtcgta ttgtatggag cattcaccc cagctgcggg agaaataatgg ggacaagatg 180
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cccttcctgc agcagctgaa ggttgtttttt gatgaaggatc agcagcaggcc ccagtttca 360
accatccgca gcttcctgaa gtcataacc accatgcctg tggccaaatg ggctggcttc 420
ctggacctca cagacgacca gttccggatc cagctt 456

<210> 327
<211> 462
<212> DNA
<213> Homo sapiens

<400> 327
tttacaggta cacaatttaa tattttat atgcattttata tatacatat ttttcaacag 60

ctgtatgttt gctatgttgtt acaatcttaa aaatttgctg attcatagtt tggaaaaacaa 120
aaaccttaca aaactcatca aaactcgcaa actgatcaga aaagttttgc ggaagactag 180
aaaaaatact ttattgtctt aatcatgcatt tacacaaaca aaatcttttag ttacaccata 240
aaattaagca catctaaaaaa aataaaacag ggataactag tcaaaacaca gcagatttct 300
gtatccgtat tcaactatctt ttgtatccat ttgtatgc aaataaaaact ttactccaaa 360
tatccccaaa caagtttgtt ttgtttggaa tcatggtaaa ccaagatata tatcttaggg 420
ggaaccacct tggtttgtaa tttaaactat aaaatactcc at 462

<210> 328
<211> 457
<212> DNA
<213> Homo sapiens

<400> 328
caatttaagggg ctttggcggg attggctccg cgtttgggct ggtccgcgc tccccaccta 60
ccagggtcggtt atccggagcc ctcccccgcg gggcggggac ctccaaacaa ccgacttcctt 120
tccagctgaa gaaacactta aattctggaa atagcgactc agtacatcgcc ccagcagcct 180
taatgaagat ccagaaggaa gcagaatcac ttatgtgaaa ggagaccctt ttgcattgccc 240
gaaaacagac tcttttagccc acgtatcag tgaggattgt cgcatggggcg ctgggatagc 300
tgtccctttt aagaagaaat ttggaggggt gcaagaactt ttaaatcaac aaaagaaaatc 360
tggagaagtg gctgttctga agagagatgg gcgatataa tattacttga ttacaaagaa 420
aagggttcg cacaagccaa ctatgaaaaa ttacag 457

<210> 329
<211> 448
<212> DNA
<213> Homo sapiens

<400> 329
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tatatttttcc ttttacaaga gcacaacagg aaccaaagta aagagataat agatacagca 120
ctcaggatata atcatatctt taaaataata ataaaaaaat ttacacccctt tcctatatcc 180
tgttagtatt ttccataatg gccatgatt gaaaaaacaa aagcaagca tctacaattt 240
tttttgataa agactttta tgccaggaat ggattaatta ccaacaaaat ttataactaat 300
caggctgtatg tcaatctatt tttgtatgtt atcattaaca aattttttt gaaaaagata 360
aaaatattgc cccttgataa taaatctttt tttcccttga tgccaaacagc tagaacacct 420
ttttctttttt ttttttgata ttctaaaga 448

<210> 330
<211> 373
<212> DNA
<213> Homo sapiens

<400> 330
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tgaacatggg catcagaggg cagtagttt cttggcctac agagtaatg gacaatataat 180
tatggaaagga ttgcattcca gttccctatt tacaatggga ggatttagttt tcataatcc 240
ggaccgtatcg aatgcaccaa atatccccaa actcaataga ttcccttcctt tgcattgg 300
attcgtctgtt gtccttattgtt gttttttgtat ggttagatgat ttcatgagaa tgaaactgcc 360
gggctatctg atg 373

<210> 331
<211> 306
<212> DNA
<213> Homo sapiens

<400> 331
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gaggtgggttcc tccgcaatgtt cgtggcacca accatcatcc cgacacccat gtaccgtctt 120
cggccagcca acccagatgtt aatcgccaaat ttataatttg agaaccctgaa ggccggctaac 180
acagacccca cagccccggcc ttcacgacacc ctcttgggtt tcgactatgtt gggcagccggc 240
tccgacggcccg cgtcccttgcgat ttcccttacc ttccctccgtt ccgaccaaga ccaagattac 300
gattat

<210> 332
<211> 626
<212> DNA
<213> Homo sapiens

<400> 332
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<211> 429

<212> DNA

<213> Homo sapiens

<400> 334

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 gagaacaaac actaacgtaa attggcccat tgagtgc当地 atgc当地 atgtgc当地 180
 tgacagagac gatttgc当地 agtaatctt ccagccccc当地 ccgtacaatgt gtnnnnctac 240
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 cccttaagcc ttgtgtatgg gagccatgtt ctc当地 ggtgacactt ggtcacctgt 420
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<211> 411

<212> DNA

<213> Homo sapiens

<400> 335

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<211> 255
<212> DNA
<213> Ratte

<400> 336
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agtgttttat ttctgcccggaa agtattcagg tttgctgtgg acatcaggag tctgaattct 180
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attcttttagt caaaa 255

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<211> 255
<212> DNA
<213> Ratte

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gttaatttttag ggaat 255

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<211> 232
<212> DNA
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gccgtgacat catcagcgc atgcatcttcc gccaatacga gctgttctaa gaagggaaacg 180
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<211> 255
<212> DNA
<213> Ratte

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ggccaggaaaa cttgg 255

<210> 340
<211> 255
<212> DNA
<213> Ratte

<400> 340
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ccaaaacaaa agaaggcaga ggaagctgtc taaaccgttc tcggccgttc ggaatggtg 180

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tgctttaaaa aaaaa 255

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<211> 255
<212> DNA
<213> Ratte

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<211> 255
<212> DNA
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<211> 255
<212> DNA
<213> Ratte

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<210> 344
<211> 255
<212> DNA
<213> Ratte

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aaagtgtgtca tgtga 255

<210> 345
<211> 250
<212> DNA
<213> Ratte

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<211> 255
<212> DNA
<213> Ratte

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tcaaaaataa caaaaaaaaa aatatgtatg gccatagttc acagttaaagc agccaaacaa 240
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<211> 255
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<213> Ratte

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<211> 255
<212> DNA
<213> Ratte

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cgaacacago agaaatagag agcagtgcata cacaagtaga ggatagcata tccgaggaac 240
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<210> 352

<211> 109

<212> DNA

<213> Ratte

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<211> 251

<212> DNA

<213> Ratte

<400> 353
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<210> 354

<211> 255

<212> DNA

<213> Ratte

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<211> 255

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<213> Ratte

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<210> 356

<211> 199

<212> DNA

<213> Ratte

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<210> 357

<211> 255
<212> DNA
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<210> 358
<211> 255
<212> DNA
<213> Ratte

<400> 358
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aagggtgcagg tgatccacg gggactttt aaacaccaga tctcaaagat gaaccctatag 180
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caagcgcaaa gccac 255

<210> 359
<211> 255
<212> DNA
<213> Ratte

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ngaaaccccn tcactaattt tttcwwanat actaaaatat ccaacygmag aaatcatttc 180
ggcacatccc gaccccgat cttccctgttt ttaataactg tagaaaagca tctgtgtcca 240
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<210> 360
<211> 255
<212> DNA
<213> Ratte

<400> 360
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gggcttgcgt gctaaaacat tctaccgaat gacggttaca ttttcttcat ctacccgtca 180
aacaacgaaac acctgcgcac gcacccatcc tccgctgtaa ttatgcgtt gatgaactga 240
tgcgtgactc cccac 255

<210> 361
<211> 255
<212> DNA
<213> Ratte

<400> 361
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aaagcgtgt gcttatccag ctgctggagt cagtgcata ggaactgaag ggtttgcagg 180
aattttctaga cagaaattctt cagtttctag gaggaccact aggaaatcca aataccactg 240
ccaaagtgcga gca 255

<210> 362
<211> 255
<212> DNA
<213> Ratte

<400> 362
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tccttagacca caaccatgt tgcaacaagg cagggcctgt tccgggtcc acctcccagg 180
agagtggacc aggttgagcc tccccccatc acatacacac tggtttgcct gcaactcg 240
gcagctctgt tcctt 255

<210> 363

<211> 255

<212> DNA

<213> Ratte

<400> 363
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acgtgaagga ggcgcctcc atcctgcagg agttacaggt gaaacccat gggtctatgg 180
agaagaagga gcgagttggag tttattctgg agcagatgag gctctgccta gcotgtaaagg 240
attacatttcg cacac 255

<210> 364

<211> 255

<212> DNA

<213> Ratte

<400> 364
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ctggctctggaa accatgactc agaagaaact gaaggtgttc acgagggtgtt cagtcggAAC 180
catgctgctc ctttctccaa agtgcctcacc ttccctgagaa ggggaccctt tgaactataa 240
gctttctatt ctgac 255

<210> 365

<211> 255

<212> DNA

<213> Ratte

<400> 365
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tggcagtaaa gcattttctt gttgaaggac aattagaatt ccgggctt cttttgtcc 180
caagacgcgc tcctttttagt ctatggaaa acagaaagaa aaagaacaac atcaagttgt 240
atgttcgcag agttt 255

<210> 366

<211> 251

<212> DNA

<213> Ratte

<400> 366
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tggacaaagt ggagcgtat cgcagaaggag aggctcgaa gaaggcatct gtggaggc 180
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acaatgcact g 251

<210> 367

<211> 255

<212> DNA

<213> Ratte

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caaggaggag aatgctggct aaaaaacaggc ctgcgcggc actgaggtaa tacacaccta 180

ctctcatttc tgctggccag agagggaaaga ggggtggcagc tattactcgca atcacaagaa 240
ttaatcccat gacaa 255

<210> 368
<211> 255
<212> DNA
<213> Ratte

<400> 368
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 gcccagcaaa cagtggaaatt tggaggaggtg aggygagagc ttccggggag ttaagcacag 120
 gagacgaggc ggaaataaagc caggatgagg ctccatnnc aactccccaa ggacaagaca 180
 gccagcaaaa catgtgtcag gtgcagcagc actcttcagtg ccggggcatc ttggctgggg 240
 ttgggggata cctgg 255

<210> 369
<211> 255
<212> DNA
<213> Ratte

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gagctcaaata tggaccgacta tcgtgggara kacttnnttw tgggcttcta ccactggat 180
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tctataaaata ctgaa 255

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<210> 370
<211> 255
<212> DNA
<213> Ratte

<210> 371
<211> 255
<212> DNA
<213> Ratte

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       gcaccatggt gtggtcatttgc ccaaaggta acaccagatg ggaagaaaagc agcaagtgcac 180
       ctgaaagatg ttgttaaagt cggtgcaatgc aatgcagata aacatcagtc cctggggaggt 240
       cagtatggtg tccacatgttgc 255

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<210> 372
<211> 255
<212> DNA
<213> Ratte

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acagcaggag ggtgtgagtg caggcaatgt agcatgagga agagacatgg ttcttgagca 180
ggcgtaaacc ctaagcaaag gaactccgtt cacgtcactg ccgcacattaa gaaatgaagc 240
aatcagagct caaca

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<210> 373

<211> 255
<212> DNA
<213> Ratte

<400> 373
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tccaccatgt tgcggggcga atgcctggtc agcttaatgt gctcctggcc gagggcaggag 120
tgcctatga tattgtgcta gaaatggatg agatcaacag tgaatttccca gataccgatc 180
tggttcttgtt cattggagct aatgacaccc ggtcaggaa gaccccaatt 240
cttattatgc aggca 255

<210> 374
<211> 232
<212> DNA
<213> Ratte

<400> 374
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tcttacgacc catgtacag ttggggcttg ttgccttac catatatgtt ggctgtctc 120
gagtttctgg attacaaaaca ccactggagc gacgtgttaa ntggcccat tcaaggagct 180
gttgtggcaa tattagtggt ttgtatgtt gctgatttct tcaagaccac ag 232
255

<210> 375
<211> 255
<212> DNA
<213> Ratte

<400> 375
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tccagtgttc tagttacatt gatgagaaca gaaacataaa ctatgaccta ggggtttctg 120
ttggatagct cgttaattaag aacggagaaa gaacaacaaa gacatattttt ccagtttttt 180
tttctttact taaaactttc aaaacaatag aaactttgtc tttctaattt tatactttaa 240
accgattaaa tcttt 255

<210> 376
<211> 255
<212> DNA
<213> Ratte

<400> 376
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gttggctttt ctttaggcgt ctacatgaat tctaacttat gcattagtc tcaaaatgg 120
tggctctaag tggtagagaa aggagacacc tttaggtatca tggatgtca ctttttttgt 180
gtgtggagga ggtgaacttc acggccacaa ataaacaggg tttgggcttt gtccagatgg 240
tagacttaat aaaaat 255

<210> 377
<211> 251
<212> DNA
<213> Ratte

<400> 377
acaagggcga ggggctgaac aagacagcca ttggggacta cctaggggaa aggaagagc 60
tgaacctgtc tggctccat gcttttgcgg atctacatga gttcacccgc ctcaatctgg 120
ttcaggccct cggcaattc ctgtggagct ttgcctccc tggagaggct cagaaaattg 180
accgaatgtt ggaggccttt gcccagagat attgctttag taatccccggg gtcttccagt 240
ccacagacac c 251

<210> 378
<211> 255
<212> DNA
<213> Ratte

<400> 378

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gaggcttgtc agtgtatgtca aatccctccaa gaaaagatct gcttagataaa cttaggactaa 120
cagtttcgta gtaataaatcc aattttataa ttgccttttg caaatctgcc tgaagctaca 180
ggaaatggaa attaaagcaa gtgtaaaaatg ggttagtctga cattttaaaaa aattacataaa 240
agagggaggtt aaagt 255

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<210> 379
<211> 250
<212> DNA
<213> Ratte

<400> 379
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tgaactcaca atccctggtg tc当地atcccg gggactaacgat gatcctctac tgggtccccat 120
ctgacctgtaa gcaagtctgtg agtgtgtggaaa ccacacggga catcgagtgg gcccacctata 180
cctgcaccc tggattccat gtctttggag tgtggccctga gggctcagat ggaacagaca 240
tcaatgttgt 250

<210> 380
<211> 221
<212> DNA
<213> Ratte

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<400> 380 acctggaggg tatgtatgaac gaggccccgg gacctatcaa cttcaccatcg ttccctacta 60
tgtttgggga gaagctgaac ggcacggacc ccgaggacgt gatccgcaat gcctttgcct 120
gttttgcata agaagcctca gggttcatcc acgaagacca cctgcgggag ctgctcacca 180
ccatggggcga ccgattcacg gatgaggagg tggacgagat g 221

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<210> 381
<211> 255
<212> DNA
<213> Ratte

<400> 381
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agaaccacct caggcctggc ctctagtccc cggtggagtt gagtgatgtc atagtcctgg 120
tcctcttcgc caccacccctc ttctccataa tagaagacat tgtcacgagt gtcatcctct 180
gggagcagaa ggggctcttt gacctccctc ttctttctca ccaacagaag gagcgccaga 240
agaagggtca gtaga 255

<210> 382
<211> 255
<212> DNA
<213> Ratte

<400> 382 acacttggtag aagatttgta aaatgttaagg tttttttttt ttttttttaa tggtccattc 60 cttcatggga gcgtgtgcgc ctgggcttag agcggtggga tgcacagatg ttctttctag 120 aacatattcg ttgcaacagc taacttgtt ttttcatggt tttttatgtt ttgtttttgtt 180 ttttgaaaaa tgagagaaga gctggagaga tgatttttaa gattttttt tgttttgttt 240 tttactatcc atagc 255

<210> 383
<211> 255
<212> DNA
<213> Ratte

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<400> 383
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ccatattccc tgctgagcgt atggtagac cacagcagag aagtccctgga ataagacact 120
tgctccctcag aggacagttc tggatgtaaag ggagtgtgtt cccagtataaa aaagaaggaa 180
gaaatgttga aaaagtatag aaacgcctatg ttaaagagca tctgtgaggt tcttgtatcta 240

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gagagggtcag gttgtt

<210> 384
<211> 255
<212> DNA
<213> Ratte

<400> 384
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ttcttgaga ctccata tagaaaactg atgtttctgt ctcatccat gcggcttttc 180
ctgcggattt ctgttagcgc ttctctgcc actgtgttcca taaactttagg gttatccttg 240
gagacttctt ctggt 255

<210> 385
<211> 255
<212> DNA
<213> Ratte

<400> 385
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gattttactta tgcaggatgc tccagtgtga agaaataccg gcccaaatac tgcggctccct 120
gctgtggacgg ccgggtgtgc acacctctgc agaccaggac cgtgaagatg cggttccgg 180
gccaagatgg cgagatgttc tccaagaacg tcatgtatgt tcagtccctgc aagtgttaact 240
acaactgccc gcattc 255

<210> 386
<211> 255
<212> DNA
<213> Ratte

<400> 386
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gagttcacca gacaagctga ggtgacccctt ttggggcacc caggcaagct gatcctgaag 180
cagcgttttta gtggatttgc tgaacatggc cacctgacca tcaacacggc gctagaaggc 240
cgagtgcac agatt 255

<210> 387
<211> 250
<212> DNA
<213> Ratte

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cttcagagca gaaggcttaa gggtgaaatg accactcaga aatggagggct ctgttaacat 180
cactggggtg tggattgacc ttggtagaga gacacttgtt ggcttggct ggatggaaag 240
attactctt 250

<210> 388
<211> 255
<212> DNA
<213> Ratte

<400> 388
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cactgtgcgc tagtgaacaa ctgtcaagtc taaactgtct cgaaaccagt gtctgagatt 120
gacaggctat ttgcattgaca atgacacacg ttctctactt cgggtgggtg tttctccca 180
cagcagttag gaacccagat taaaatataat gtgttattgt aatcctttt gtttttttac 240
agaagaaaaat gagat 255

<210> 389
<211> 255

<212> DNA
<213> Ratte

<400> 389
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ca3ggcaggc aggccacaac tttcacttctt aggaatgtt taagagacac taaaggcac 120
cttggggcag gagggcgatg tccgggttggc agaggagcag aggagggtct gaatgaaacc 180
ttctctgggtt cagctgtgag gatacaacag gaaaagcatg tgatgtttagg gggAACACTG 240
agctggccct gctgg 255

<210> 390
<211> 255
<212> DNA
<213> Ratte

<400> 390
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actgttttc agccctccgct gtgcacacccg atcccaccag aggccaccgt cgcccttctac 120
gcttttttc ccagatccac aacaatggcc aatctgactt ccgcggcaag aatggccgccc 180
atgcatggat ttggcatgac tgccacacggc actaccacag catggaaagta ttcaacttact 240
atgaccccttccat gagcc 255

<210> 391
<211> 255
<212> DNA
<213> Ratte

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agcatcttc agcacaactt ggacaagacc taccacaaag gctatccca gtcctgtatc 120
aagcagctgg gccacttctt cagatacgtt agccctgagg acatccggca gtggaatgtg 180
acttcaccacg acacagtgaa tactctgctt aaagtcagca aaggacaaaa gatggatgct 240
caggtgatttgc ctttgc 255

<210> 392
<211> 255
<212> DNA
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aagcttagcag ttaggtttcc atgcacttctt gtgtcattac attgaaaatg gtttgcctta 120
aggtttttagc actggccaaa taaaactact agcaagaatg aagttatagt gtgaaaagct 180
ttaaacttcg taggtctagg gtaggtgaaa agagtcttca ccaaaaataa aggccagaaga 240
aaagtcatag ttta 255

<210> 393
<211> 250
<212> DNA
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cttcacactc ttccagactttt ggttctccaa ctccaggtaa taagcaccct tgaagaaaata 120
gctgtgacca ccaccctgca ggtccacgac tgcatccagg ttatcaggga tgccattcca 180
ggagtcgtcg atgagcttcg ggaaaccggg gtccattttt cattgtatct 240
ccagaacttgc 250

<210> 394
<211> 255
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acagggggct ctgtc 255

<210> 395

<211> 255

<212> DNA

<213> Ratte

<400> 395
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tgatcatctt taccagatca caagctagac tgaattttccc attagagtca gttctcaata 240
acaaaatttata aagat 255

<210> 396

<211> 255

<212> DNA

<213> Ratte

<400> 396
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aaaaatgcct actcacagat ccgtgtcggg aacccctggg accccaataat cctctatgg 120
ccgctccaca ccaaacaggg ggtjagcatg ttgtgcaag ccgtggaaag agcaaagaaa 180
gaaggaggca cggtggctca tggggcaag gtcatggacc accctggcaa ttatgtggaa 240
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<210> 397

<211> 255

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tcataaggcg gcacccggtg atgtataagt cggtgtatcc agtggccggg gcacccaccc 240
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<210> 398

<211> 255

<212> DNA

<213> Ratte

<400> 398
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gagaagagtt attcagcaag agggaaaaca cagttctgt ctcaactccta ctaacaaccc 240
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<210> 399

<211> 255

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<213> Ratte

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ttcaaaagaca aaggaatatg cagaggcccc ttggcagtgg gtccctggctt ccacagcagg 180
ggaggaaaac caagaaaaga gctggccacat cttccacccca gtcccccccttga 240

cagcaggact cagt^g

<210> 400
<211> 250
<212> DNA
<213> Ratte

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cagtgcacct gccccgatgg ttacccgaaaa atggggcccg aatgtgtaga catagatgag 120
tgctcgatcc gctactgcca gcaccgatgc gtgaacctgc caggtcttt ccgatgc^c 180
tggtgagcccg gttccagtt gggaccta^ac aaccgtctt gtgtggatgt gaacgagtgt 240
gacatggag 250

<210> 401
<211> 255
<212> DNA
<213> Ratte

<400> 401
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tccattgtgg atagatgagt gttacacctg cgtgtcg^g gggcagagg ggcaaggagg 120
gatacagctg cagatgg^tgg agcacgtca^g gatcagaaac cagaatccc tatcaagtct 180
ggagacgagg agcat^aaga gcaatgatga cgacagtaac aatagtgata atgaccatga 240
gatgtctgag gacca 255

<210> 402
<211> 254
<212> DNA
<213> Ratte

<400> 402
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tattccaggt acccaggaga ccaatagttc caagacccc tcccttttc cctgtgcctc 180
aggggccttc agcagcttcc gcgtggcat ccgccttcc tacctcacca actccactga 240
cacggagtag atgg 254

<210> 403
<211> 255
<212> DNA
<213> Ratte

<400> 403
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taaaacatag tgggggatg ggggagactg ttgtAACGGG agncaccctg tgaggtggct 180
gaaggggtgaa gaaagcactt gaattttcc caaataaggg aggtatggagg gaaacaacct 240
gtnttcaaaa atgtt 255

<210> 404
<211> 255
<212> DNA
<213> Ratte

<400> 404
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cctccatgtc caaatggact tgaagagtt tgctgacaga agcaccagg attcttagct 120
gtccctaaagc aatagcaggc aaaggaattc ccaaacagga atctggact gaaatctcc 180
atatctttt ggaagtggga atgaagagcc atatataat aaagatgtt tttctgaaca 240
atttcaattt tcccc 255

<210> 405

<211> 255
<212> DNA
<213> Ratte

<400> 405
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gcacagagaat gacgttcatg tccccgtggc caccctgcag agagtacatg gagccgcgtgc 120
cccgggtggat gatggaaagc aaggcttttatttctggaa aggacccttg tcatacatgg 180
tggcatacgt gttaggccaat cctgctacaa gcactcttc aaaccagcc ttcagaatgg 240
cgggcacccc aaacc 255

<210> 406
<211> 255
<212> DNA
<213> Ratte

<400> 406
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agaagtctga ctatgtatgg taatcttaa atgcttggtt taattacaaa aacaaaatca 180
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<213> Ratte

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cagttgcCAA cctgc 255

<210> 408
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<213> Ratte

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tcttccctttt gcatatttttcc ttggagaaac agcaagggtga gcttcctttag cataccaccc 180
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agacccaccaa agtgtt 255

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<400> 409
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atttttgttggaa agtttttttgc acaaattaaa aaataaaaata agagagactc agatgttcat 180
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tttcgtgtgc caagt 255

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cgatattgtat attgaagcaa tgcttgaggc cccttacaag aaggtgagaa aacatgtctg 180
ngagctgcaa tatattctt aatttagcat tattcagaa actactgtg aaatgtaaac 240
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<210> 411
<211> 237
<212> DNA
<213> Ratte

<400> 411
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aaaccaattt tagtcagagg cgtgtttgtg cccaaatagg tatcatgtat gtatgtttaa 180
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<213> Ratte

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gatcaagtttta agcagcagct gattaatgaa accagtcgaa tcagaggcaga caataggctg 240
gacatcaacc tggag 255

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<400> 413
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gataaaatcat atctttaaaa taataaaaaa aaattttcac cttgtccat atccgttag 180
tattttcata tggcatgat tgaaaaaaaaaaaacaacaaca aaaaaaaggc aagcatttac 240
aattttttttt tcgat 255

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<211> 255
<212> DNA
<213> Ratte

<400> 414
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ttccccacact acctgtatgg actggccggc gctcctctga acgtattt acgtgtactc 180
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gtatggctg acagg 255

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<212> DNA
<213> Ratte

<400> 415
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tggggccggacc gatgcagaga atgactcccc caagagggat ggtgccttta ggaccacaga 180
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255

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<210> 416
<211> 255
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<40> 416
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caggcacacc tttgt 255

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gccacgtctt ccgcattggc ccctcgcttc ccagtaacgg catggatatg ggctacaatg 180
ggaataagac tccaaggagc cagggtttca agcctttgga attgctttgg cactctctgg 240
atgagtgggt gttt 255

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ggcagaaggc 250

<210> 419
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<212> DNA
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ggaagctgt cactcaggcg ataggrngatc aatccacttt ttctttgttt nggactagaa 180
gatgagggtg gatgttgc gatgttgc gatcctggaa gaattgtctg gaattttcca 240
gatgttgc taata 255

<210> 420
<211> 255
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gagacaagga aaaacgaaag gaggaaaaga ttagagctgc tggggatgca aaaataaaga 180
aggagaagga aaatggcttc tctagccac cacgaattaa agacgaggct gaagatgtg 240
gctatatttgc tcctc 255

<210> 421

<211> 255
<212> DNA
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tttagcattt ggaattaagc caatgaagag agaattttgt tttggattttt atttggtgt 240
ggatttttt caggt 255

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<211> 255
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tgctttttat tagatctata taataaagt aactagcaat tttagttttt atttaaagcta 240
caattaaatct ttttc 255

<210> 423
<211> 255
<212> DNA
<213> Ratte

<400> 423
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aaccaggcag acacagtatc caaactcaa gtgc当地 actgaaccaa aggngatgt 180
gttgaagaat tacagnggtt agaaaccaaat tccaaactccg ttaggc当地 ggagaagatg 240
tgctcacaga ctcat 255

<210> 424
<211> 255
<212> DNA
<213> Ratte

<400> 424
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cccaccggga gctatcgctt tagctgcctt cctacaggct ctggggagg aggccgccc 120
ggtggtagac cggagagcct tgaacttgca tacgaagatt gttgaagatg ccgtgaagca 180
aggagttcc aagacaccaa tccccatatt aacttaccga ggaggatccg tggaaagatgc 240
tcgggcattt ctgtg 255

<210> 425
<211> 255
<212> DNA
<213> Ratte

<400> 425
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cccaaaacat taagatttt aaagactaaa agtagtgagg gaaaaaaaaa caataaaaat 120
tgcaaggcaga gacttaacta agagttttac aattaaaaaa aatacccaaat ttaaagtatg 180
tcagttttat agaacttgta atttgactg caaaaggaat gcttaaggaa ttcacttcc 240
tcgtctcagta tttt 255

<210> 426
<211> 255
<212> DNA
<213> Ratte

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<210> 427
<211> 255
<212> DNA
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atcatggcca tcctatagat gaccttcaa gtgcctatct gaaaagaaaag gatacacctc 180
agaagtgtt taaacagttt accgacacac actggacaga tatcactcgc ctatttggaaa 240
agcttgaaga acaga

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<212> DNA
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<213> Raccs
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ccaggtatacg gactaaagtg agtatttaggt tgaatattga tgtagactct ttgtgtgtcc 180
tataaccttt aatgcataaaa ttcttaaatt tgtctttaga gtccagtggg cctgttaatg 240
gtgaatttcc ttgta

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<210> 429
<211> 250
<212> DNA
<213> Ratte

<213> Raacl
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agtgcacctt cccacagaaa gagacacaca cacacacaca cacacacaca cacacacaca 180
cacacacaca caccaggaa agcctccaaa aagagattct cactgttaagg aaggatgtaa 240
agaaaaataga 250

<210> 430
<211> 249
<212> DNA
<213> Ratte

<400> 430
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ttaaagctgc tttagcctcaa ttttaacaga ttctgaaatg tcttaatgtg tgtaattagt 180
gaacttaatt actctattac tggggcttt aaagcattt ataaataacct gttgactgccc 240
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<210> 431
<211> 255
<212> DNA
<213> Ratte

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cgattatctg aatcatttgg tcctaaaaaaaaa tgtagttta aaaaatcaagt tcaggctaat 180

tggaggtaaa tttaatcata tccagcactg gaatattttt ttctgtttt ggctgttaggt 240
tatacttttg tggct 255

<210> 432
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tggtagggcga cagga 255

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<211> 255
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<213> Ratte

<400> 433
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tgtaggggttc caggaagaat caatgcctcc aacagtggac aaataactaaa agtccttaca 120
gcaaaccata tgggttagc ctcgtggta ctgcttaact gcaaacctgt tgagtaatca 180
accttataaa caatagctag acagtcatag gcttttaaaa caaatgatcc aataacagca 240
aaggagagat aaattt 255

<210> 434
<211> 255
<212> DNA
<213> Ratte

<400> 434
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gactacacag agaagccagg gcatgtgcgg cactaacata gcccactagt cccactgcgg 180
ccacactgtgt gtgtgtgtgt aggttagttca ggttactgtat tcactgagtt aacacacacc 240
tagaaactat agcaa 255

<210> 435
<211> 255
<212> DNA
<213> Ratte

<400> 435
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agtctagaag gaaaaacaaa gccaccgtca agaccctgtg gagttgaaga ggacacggaa 180
acgtctcaat gagtaatcc tccccactgtc tctaaaagtc cgacagaaac tgagttagct 240
cacgaggaca gattt 255

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<211> 255
<212> DNA
<213> Ratte

<400> 436
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cgaactcgaa aacaaacttc aaccccttgag attttcttgg aagcagaacc catagaactt 120
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gtggacactga ctcacaatgtc ctctgtgtgt attgtttgaag aaaggagaag gccaaggaga 240
aatgggagga ggtta 255

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<211> 255
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gctcccttcat ctgccacigt gatatgggc actontggaa aaaaggaaana acgggctgca 180
caaataatcaa tgaatgtgan attggaggcac acaactgtgg caaacatgct gtgtgcacaa 240
atacagcagg gaact 255

<210> 438
<211> 255
<212> DNA
<213> Ratte

<400> 438
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taattttatc cctggatga gatagtttgg aatgcagtgc tcgctgttgc tgaataggcg 240
attcacaacgt gcatt 255

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tattgtaaac atcat 255

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<211> 255
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<210> 441
<211> 255
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<213> Ratte

<400> 441
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ctaccttcaa ccgtgcttat cctatcaaaa tattatactc taaagacatt taaaacccaa 240
aactgctcat ttttat 255

<210> 442
<211> 255
<212> DNA
<213> Ratte

<400> 442
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gctaagaagg aatcatttag tggtaaagtt ttatttgaat ttggccaggc agtcnatgct 180
atagtttagta aacncatttg gagacaaata tcagagtgc tcaagccatt tgcaatctga 240
aatgattccc atatg 255

<210> 443
<211> 255
<212> DNA
<213> Ratte

<400> 443
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gatccagaac atgaa 255

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agaaggccaa tgcct 255

<210> 445
<211> 255
<212> DNA
<213> Ratte

<400> 445
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gatttaggtat ccgt 255

<210> 446
<211> 255
<212> DNA
<213> Ratte

<400> 446
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ctcagatgaa ttccatctct agaaacatgc agtctcaggat cagttgtgtt gggtaggagg 180
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gaaagccaggtaatt 255

<210> 447
<211> 255
<212> DNA
<213> Ratte

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ttcatagtga gggataatt acaattcattt cttctctgtta ggttccccc ctgtttcttg 240
ttcttccttct tcttc 255

<210> 448
<211> 255
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aagagctgct agtga 255

<210> 449
<211> 255
<212> DNA
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<400> 449
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aacccccaaag acaa 255

<210> 450
<211> 255
<212> DNA
<213> Ratte

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cacggagccc tttagcacca caagggcata ctatggaaat attaattttt ttggaggggcc 180
ttcttaatgcg tcagtgagg cttctgcaaa actgagacag ctggaaagagg agaacaagg 240
cgccatgtt gtgat 255

<210> 451
<211> 255
<212> DNA
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ttccacccctt gtcttttttg ggaaaatgaa ataaaaanng ttgattttgtt ttcttctcc 180
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ggaaaggccaa atgca 255

<210> 452
<211> 255
<212> DNA
<213> Ratte

<400> 452
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tatcagtccca gggaaaaata gaaatctccc taaaaggcag ggacctgaaag gaatgggg 120
caaaggata ttggaaatcgc tcattttttt gttgaattttt ttatggaaacc cacctactca 180
aagcttagggc accccggacc tttggcccat ccacaccgtt ctccatctgg gggactaacc 240
ctgtttcaaa accag 255

<210> 453

<211> 255
<212> DNA
<213> Ratte

<400> 453
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gttattgttta ttatggtaa aaataaaaacc aggtcaggaa gcacagcaaa cgaaccaacg 120
ctgttaagcta cacaaaaaac attctggta gccttttaa agccaggcac aagaattca 180
caccattaac aatgaacgct cagagggctt ttcgaaaaat tcacacggca aacaacaagt 240
taaaaaattha tcccc 255

<210> 454
<211> 255
<212> DNA
<213> Ratte

<400> 454
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ccatacctaa acatagtaaa agccatatac agcaaaccag ttgctaacat taaactaaat 120
ggagagaaaa ttgaagcaat cccactaaaa tcagggacta gacaaggctg cccactctct 180
ccctacttat tcaatatagt tcttgaagtt gttagccagag caatcagaca aaaaaaggag 240
gtcaaggggaa tacag 255

<210> 455
<211> 168
<212> DNA
<213> Ratte

<400> 455
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ttttttttt tttacacaag acagaactt attaatggaa ggcttcttgg tgaggagtgt 120
gtggggcccca gggcagggtt tgtagcacc atgatggggg atggcctt 168

<210> 456
<211> 255
<212> DNA
<213> Ratte

<400> 456
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cagaaatgaa aaaggaaaaac agcagacaca gcggacacct cctgtgtccc tgccaccagc 120
tacttactca caggtgaagc agaaattcta ttaaccagc aagtttctgc tttttaagt 180
tactttcaca ttaccaacat cagggaaatg aagagaggst gtgttttgtt ttgggttatg 240
gtcacgaact aacta 255

<210> 457
<211> 255
<212> DNA
<213> Ratte

<400> 457
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gaggcacaac acttccaaacc aaaacttccc ccagaaacgc aaagaaacac gatgagttat 120
ggcatgatgg agtttgccta tcagtagcaa atccctttaga agtttacctc attccacac 180
caccagaaaa tatcacccat ctttagatgt aatactactt ttaagagttt 240
tacatgccat cagtc 255

<210> 458
<211> 250
<212> DNA
<213> Ratte

<400> 458
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caaaaacaca acagtttctt gggctctgtg tcagttacat tacattttta agcaaacacgt 120
aatctgtaaa attgtcccaa gacatccatt cctctaaccg tttccataacc ccatacccagc 180
cccgagccctc tgtgaaggcc acgggtctc agtgctcccc gttactgatg acagccgact 240
cagtttgcgc 250

<210> 459

<211> 255

<212> DNA

<213> Ratte

<400> 459
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gactgaagga gaaacatttg agaaagaagc ttccagaag ggaggtggg aggggtgtca 180
cgctggccccc tagataaaga tgatttagca acagggtttg agtagtagct aggtggaaaa 240
aagagaggac aaaag 255

<210> 460

<211> 162

<212> DNA

<213> Ratte

<400> 460
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aatttcatct tgagaaaaca gccacaacaa aagtaatttta taccatataa aacaatgaca 120
gttctacagg tgcaggtaact catgagtttta cacatgcatt ca 162

<210> 461

<211> 255

<212> DNA

<213> Ratte

<400> 461
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ctccactcaa aagcactgtt gcagatanaa nangagacgg tagtcactga ggcagaacta 120
taaaaaatgg tgtatgtttt cccctttttt taaaaaaaaa aaaaaaaagaa taatcttgc 180
ctcgtagat gacataggaa cactgtggtg ttggtaggac ctgtatttttt gttgtttatt 240
tataagaagg taatt 255

<210> 462

<211> 255

<212> DNA

<213> Ratte

<400> 462
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cacaatgaaa agctcaactaa ctagatttagg aacagatgtat gctgggtgtga atagcttgc 120
gttttactct agagccctta aagaaaatcc ccgttagtgt ttgtgtttac cagccagagg 180
gtcaggggtt agtgaacatgt tggtaaaatgt aggactatgt caaggtttaa tacgcatacg 240
attcttctac ttgt 255

<210> 463

<211> 236

<212> DNA

<213> Ratte

<400> 463
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agagctggct ggaaggggct ggactggagg ggctggcggt tcgcagcaga gccccactat 120
ctgaagaaaa taattctcta ttatttttat taccacatgt ttcttttgta ttctaaaata 180
tggaaaaataa aatatttaca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agcttg 236

<210> 464

<211> 177
<212> DNA
<213> Ratze

<400> 464 acgttgtatg tgggaatctt ttccctttat acaacagaag aacagatcta tgagcttttc 60
agcaaaagtggggacataaa gaagatcatc atgggtctgg acaagatgaa gaaaacagcg 120
tgtggggatctt gtttcgttggaa atactattca agagcagatg cagagaacgc aatgcgg 177

<210> 465
<211> 255
<212> DNA
<213> Rat

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<400> 465
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ttgggatttg aaatttcctcga cacccccacga gggaaaccc cacggcttgt gtttcctcgc 120
aattgggtgt aactggcccccc ttggccatgc taaggttctt taaaaacagg gtcatctgt 180
gttcatttttt ctgcccccaac cctactatga aacaagataa cccctgttgt ttctaaatgt 240
atcaagggat accac

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<210> 466
<211> 255
<212> DNA
<213> Ratte

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<400> 465 acaaagatcc ttcatcttt ggcaactgttg gacagaaggcc attcaactccc acttttggaa 60
ttgaattttt atgaagggaaag attatctggaa ggtatccaa ctcctgttaat cctgaaggggaa 120
tttttttttag tttatctgtgt tccaaggggaa tctctctcac acgtggataat tttagcaaaag 180
ttccatcccc aatatctgtg attttgtgt tcccaagacc cagcctcgc agttccttgt 240
atcgaaaaaa atccc

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<210> 467
<211> 250
<212> DNA
<213> Ratte

<400> 467
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tgtgcttgag tgttagtaggg cagagacggg agttgggcct tctatactg atgggagtca 120
tggatgaagt ccgaatttggg cggattttcc ttgtggctgca attagtagtc ctgtgagagg 180
gactagatgg ttggtggttgg ttaagaaaat ttgttggagt tctcaggagt ttatgttttag 240
gcagaatcag

<210> 468
<211> 255
<212> DNA
<213> Ratte

<400> 463
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ttgggtgcaca gattgagaag acaaccaatc gagaagcttg ccgggatcc agtggggagga 120
gattacgaga tgcataatcat ganaaagcga tggccgatcg gttaaaacag caagctgagc 180
gagaggctga aaaggagcaa aggcgccctgg agagactgca gcgaaagctt gcagagccctg 240
cacactgctt tgcca 255

<210> 469
<211> 223
<212> DNA
<213> Ratte

<400> 469 actagagatg agtccccagag aatgataggt cgaggccggc catcttggat gaactctaat 60

ttccctgctca cagatggcag ggnctgttg agacccaggta tcctgtccag gtggaaggca 120
aacacttcac tcatgtccag aggttgttgg anaagccac aggggcttgg gcccgcagcca 180
ggcacagaga ctgagggngt tccttccaac atcagcaagc 999 223

<210> 470
<211> 255
<212> DNA
<213> Ratte

<400> 470
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gacagatgtc acaggcggtt tctctgtcatg tctctggctt ctccctgtgt tctcacagt 120
tttcttcaa ctggccctgtt cattactggc tgcctcagca cgaggtctgt atcatgttgt 180
tctcacgtta coctgacagc atacaggacg gggagtaggg cacattcaca gtgttcacag 240
tcagcagaca tggtg 255

<210> 471
<211> 250
<212> DNA
<213> Ratte

<400> 471
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cagagatctg tgagacccctt actcgggggtt catgtccctt cctggggctt tcagtggagt 120
ccccactca gttcagctt gcttctggct gtgtggact gccagtgctg atgaacatta 180
aagctgtgtat cgaacagagg cagtgcactg gagttgtggag tcacaaggat gagttgccga 240
ttttagattgt 250

<210> 472
<211> 255
<212> DNA
<213> Ratte

<400> 472
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gtatgttagt caggaaggat tacgtctcca tttgtgttag tatgtctgtc tcagctccat 120
ggataggggac cacgtggcag ccattctggat tgcataatagc tggggataaa aatcccaagg 180
aggacataaag cagaaaaaagg agcaataactt cctggtttggaa accaaactca aaccagagat 240
cttaatgcac cagac 255

<210> 473
<211> 250
<212> DNA
<213> Ratte

<400> 473
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taggttgtat aatggatgtt atcatcttac tatttgcaca agtttgcaca cctactaaat 120
aagtcaatgg aattcaagcc taattctgtc tggtttttttctt actggatgtc tcttcctcat 180
tacatggaaac tacaataaaac agttttatagt tataactagcc ttttataatgt aattcagagt 240
ttgatacgtt 250

<210> 474
<211> 255
<212> DNA
<213> Ratte

<400> 474
accaaagccc agtgggataag agatgggtca ggagacctgg gcccctgaagg tcacactttt 60
cagaactact aagtgtgccc aaaggccaaa aaactcaaga gggaggscat totgagctgt 120
gtgagtttttca aacttcacaa gataaaaacgc aaactcccaa gaagcatgtg attcaaaaag 180
tttaccaccc tttttttttctt ctgacccctgtt cttaggctgc aggttgccag accaggctgg 240
ttgacttctg agata 255

<210> 475
<211> 255
<212> DNA
<213> Ratte

<400> 475
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ttaaattatg ttttgttttgc ttctccatata aatgcagggtt aatgtgttca gatgtaaaat 120
atgttttgcgtaatgtggac agtttatatacataaacaat attccttttgc aaatgactct 180
gtatataaagg cagggtgttgtt tggtcatgcc tgtaattcca gcagttggga gatagagggtc 240
aggatcatc aaggc 255

<210> 476
<211> 255
<212> DNA
<213> Ratte

<400> 476
accccccta agaactttga cttaaagggtcc ctaatgggtg agaagaacca acacagaacc 60
aaactgactc gcacgtccctt agcagggtt ccgggttttgc tcgcattttgc gtggggaaaca 120
ctactaactc tgacccatgg tacctcatgg ggagcacagg gtccctgttgc ggtttccccc 180
ctggacacag tgccaaggac agccccacac atcgggtatt gggtcccttgc tgttttcccc 240
gtctttccaa agtct 255

<210> 477
<211> 255
<212> DNA
<213> Ratte

<400> 477
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acaccaagct ctatccatc atataccatg ctggcgagtc cagtgcagag acctccgacc 120
agccaggaca gaggacgggc acctgaggac ccaagatgag acttcctcgc agagagacat 180
cccgtttgag atgtggatg aactgactta atctgatcta aatctgtata taatccacat 240
ttgtaatcaa ggatg 255

<210> 478
<211> 255
<212> DNA
<213> Ratte

<400> 478
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ggtttcaactc tatagccca gctggccttgc aacttgcgc tgngtcccttgc cctcagtttc 120
tcagcttcag gattatggac agaaatcacc atgcctggca tgtaactatt tttgaggctg 180
aaatagctaa tgaaaagccc tatctagatc cagatttat atgacatcaa attagggaaag 240
tggagggaaat tattt 255

<210> 479
<211> 255
<212> DNA
<213> Ratte

<400> 479
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tttggacagc tcatttcctgc acaagtggaa gacatttggaa gagtaatgttgc gtttgcgttc 120
tgtcatatttt gaaaaatccatc aaaaaggaga gctccctaaa ttgaacttcc cggaaatctaa 180
ctttcctcaaa ttttttttttt aagacttaaa aacatcgatc attgagggca tctcctgatt 240
aaaagtcccc tagaa 255

<210> 480
<211> 251
<212> DNA
<213> Ratte

<400> 480
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tcggggttttt gactttctgc accctcgat taggtgattt gtgttaatgt atgaaaccgc 120
agagcacgtt gggccacctg tggcatcaag actgcaactt gacaatcacc gtttgctgat 180
ctcaaacggg cgctgaaaac tcagtctggg tgcgtgactt aacgatttag cccggcccttc 240
tgcgtgtcag t 251

<210> 481

<211> 255

<212> DNA

<213> Ratte

<400> 481
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tttataggaa ctaaatgggg atacaatata aaagcattca tcacacttat tttccaactt 120
gaaaagaatc aaggactgat atatattccct caggcacata agaaatgact tattaaaaag 180
tgcggccatc gttgttgc acagtcttagc actgcccagg gggatagcac acacctgtaa 240
ccctagctc gggga 255

<210> 482

<211> 255

<212> DNA

<213> Ratte

<400> 482
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ggctcacaga ctgcgttcta gaatagccag ggctacacag ggaaagaaac cctgtctcaa 120
aacacccttc ccacttccct agtttttctt gtttttgtt gtcttaacaa aggggtgtaa 180
atgctactaa tcattcaaca caggccagac ccaaagacaa gccaggccag cagtggtagt 240
gccaaaggtt ttctc 255

<210> 483

<211> 255

<212> DNA

<213> Ratte

<400> 483
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ggaggaggggc ctgcgtacgg ccgatttttt tgacgacaa gaaactctt aattctggaa 120
atagcgactc agtacatgg ccagccgcat taatgaagat ccagaaggaa gtcgaatcac 180
ttatgtgaaa ggagatctt tcgcatgccc caaaacagac tccctagccc attgtatcag 240
tgaggattgt cgaat 255

<210> 484

<211> 255

<212> DNA

<213> Ratte

<400> 484
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cagcactgaa gactatgtatg tggaaaggata tggaaagacac agatgtatgag gacacatgt 120
atgtatgtatgaa taattctctc tttccaaacca aagagccatg gaacccctttt tttcccttcg 180
atctgttcc gacatgccc tttgggtgcc aatgttactc tcgagtcgtc cactgttctg 240
atcttaggtt gacat 255

<210> 485

<211> 255

<212> DNA

<213> Ratte

<400> 485
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tacctatctg tattcacaag atatctgtca gacatttcat tcataatcacc atgtgtcgat 120

gtaacaatcc tctgtttttc agcatgggtg acttccaagt ccaaggccaa gatccagttt 180
taactaccta cagtaaccct ccactgcagg cagacgggaat ttcatgttact tagcagaacd 240
ctaaactgtttc acttgt 255

<210> 486
<211> 255
<212> DNA
<213> Ratte

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<400> 486 actcgccggc cactggaaac tgccaacagt gaacctcagc gtctcaagaa aacactgaag 60
       aatctatga attgttagcag tgaattggat ttatctct ggcatatttt gaagaaaaat 120
       gggstattga aacatttttc cttcttgact gctgcttggaa ttatcttggta agctgtttcg 180
       tatgtatagg tttttaaaa tgtgatccc ttgtttgaat attaatggct ttttccat 240
       aagaataaaa tgata 255

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<210> 487
<211> 250
<212> DNA
<213> Ratte

<400> 487 actgaggcgg gcacgggaga tgtcagcatt ggtatcaagt gtacccctgg agtagtgccc 60
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aaatacacac cctgtggggc tggcagctat accatcatgg ttcttttgc tgaccaggcc 180
acacccacca gccccatcag agtcaaagtg gagcccttc atgatgccag taaaagtgaag 240
qctgaaggtc

<210> 488
<211> 255
<212> DNA
<213> Ratte

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<400> 488
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aagccaggat gccgtcgta gccatggacc gctgtgcacg cctctgcattt agaaaaaagcc 120
atatttggaaat gtggccataa gccccgtgga ttctgtgttag gtcatgttat tcggtttctg 180
tctccagtc catctgattt cgctctgtcc tttttttctg ttggttccctc ccaagtgtt 240
attttgtattt aaacc 255

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<210> 489
<211> 255
<212> DNA
<213> Ratte

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<400> 489
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tatcacatta caagtcattt gtgattttaa aaagtttagct gccataaaatt ttggaaaatg 120
ccagtggtta aaaagttAAC tgtgctaaaa ataaaaaggttc agcagaacag aaattgaggg 180
tttcaaaACTA ttcaatgtta caaacaaaAG tttgaaaatac cattttttgg tctagataaag 240
ctgtttctctt tacat 255

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<210> 490
<211> 255
<212> DNA
<213> Ratte

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<400> 490
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tttaaagttc ttcccttaacc actctgaatt taattggagg aagacttttt tttaaataag 120
aatatgcaag tgagcagggc ccctgtggcc ttcaccttttgc ttctcaacat actgtcanta 130
gtggccgtct cgtgggcatt gncgtctnct ctgattgtct gttttatgtc tgttttctt 240
ggtcctctgaa acctg 255

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<210> 491
<211> 255
<212> DNA
<213> Ratte

<400> 491
accagctaca acccaggatg gaggttgggc cagtttatc gtcacgaatt ggtcaactatt 60
atgatgtatac aagaaggattt ctccaggagc tactagagag ttccaaatgg catggatttt 120
tccttccaga acacacccctt ccaggcttta aaggagaacc ctgccttttg tcctgtggct 180
acatgaagct gtttcagttc tttcagaaca tcatttatac tgaaggatttt gatggagcta 240
atccccagaa aaaac 255

<210> 492
<211> 255
<212> DNA
<213> Ratte

<400> 492
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tcaggctttaga gactaattat ccagggtttaga ttgaccgggtt tcactgcitc ttagcaaccc 120
catagaaggat tttggaaag aaatgtaaaaa cagtgcaccc gctgtgtgcc taaccttgag 180
gagccccggc taagtgcac ccggagctggg aaggagcttg ccactgaatc acagaaggct 240
cttttagtatt caggt 255

<210> 493
<211> 255
<212> DNA
<213> Ratte

<400> 493
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ttctttctga aattttctct agtaactcga taagtttagc agccaagccca agacggcgga 120
attcaggggc gacagacaga gctgtgacat gtcctatgcca ctcttccctta gctactgagc 180
cttctgtttt gcccataata taacccatata gcttccgccc aggtgcctcg gcaacgtga 240
aatactccgg ccagt 255

<210> 494
<211> 255
<212> DNA
<213> Ratte

<400> 494
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ttcccttagt tcataaagggtt ttcgtatgtt ttctctggga aaagaaaaatg tagcccattt 120
ctttccggctt cattggctac accttgaccc aacgtttttt tggtngttct tgnngcttact 180
tttagtgcctt tttaggggttt gctgaagatg gctgtatata ggctgaattt gcgagaagg 240
gtaaggtaga acggg 255

<210> 495
<211> 255
<212> DNA
<213> Ratte

<400> 495
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gtatgaaaat caaactggtc accgggtgatt tctataaaaat gtctctcaat ttctgtggcat 120
ttcttaagtgtt cttcaccaaa ttgttccatt gctttgtatg cctggggcaca ttctgtctgg 180
aaccacatac actgcatttc attcagggttcc tctaccgttg atgttcccttc ccttgtaaac 240
ttggAACACA ttctt 255

<210> 496
<211> 250
<212> DNA
<213> Ratte

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<400> 496
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ttgcgtaaaac atgcgaactg gaagagctca gtactttcaa ctttgatttc caaacctaac 120
acctgactga agtaggtcac atcccttcaa cacattactt tatagacaaaa tggcttattat 180
ttggaggcaa cccaaagatag gtaaaactgc tacttgttgc gaggctcatt tattttcttg 240
acccagcagg

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<210> 497
<211> 255
<212> DNA
<213> Ratte

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       agtttatatt tcctgcataa ggaccaaact caaactgtca tcaactgaatg gcccgttaaa 120
       ggaaggtaaa acttttcagt ctgtgtgtat agcagtttgtt cttttttttaa agcactccct 180
       gaccatcaact gccactgttc cctgtggaggg agcgcaagac tctgttttccct taggggttgtt 240
       acttttagagg atgttg

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<210> 498
<211> 255
<212> DNA
<213> Ratte

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gaccaatttt aagttttctta agtttatttcc tttaaaggat atattaaact gaaacctaag 180
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tctaaagactg tctaa 255

<210> 499
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<212> DNA
<213> Ratte

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gttgccttca tcagagaaga ctccattaat tcagtgtccc aatggcgccc tagggaggca 180
gcaggcattt tgttttcccc agtaagagct gaatccctta aaaacttaag aaactacttt 240
tggtttccctg

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<210> 500
<211> 255
<212> DNA
<213> Ratte

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tggagttctg cagcagaaaa gcccatttgtt gtctttgaac ttgtgttgatt caaacactgc 180
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aagagctcca ggccctgcctt ccttgtatga aaggctcccc agttaaaaaa gagttctgag 180
tgcacacagc taatggatg ggctgttag gcatttccat ctgatactgg atatggcc 240
attcttgtaa gagac 255

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<211> 149
<212> DNA
<213> Ratte

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gaagtttttag tgagtccaca tggggtttg 149

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<211> 255
<212> DNA
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tcagagggaa ttgtctggc tgcctttgtt tcaactgcag gcagtggagc agaaggacgc 180
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tgatgactc aaaat 255

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aatctggagt ttctaaagc atggggcaaat gggggttttt tcaaaaacaac actctttga 180
aggaagtgac atcagacaag agtcactat ctggtgccag tctgcgggca ccatccccaa 240
acaagagtgc ttttg 255

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<212> DNA
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aaggAACCTG CGGCTCCCTC acagtgtatgc aggaaagcta aatgtgcac cttctctca 180
aatccatata acaagccaca gacctcagcc ctctctacag ccccacacgg gtgggtgtcag 240
cagcaagctg 250

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<212> DNA
<213> Ratte

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catagatgtt gctgttttcca attttgcata gggaaaccttag ggcactcata cggtagtgtg 180
tgtcacccaa tgcactgtatg ttactgtca aagtgtgag aatgtgactac cgtgactgg 240
caatggggc tggga 255

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<212> DNA
<213> Ratte

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catcttagga tgggtgttaac aacccttat agggccctagg agccttttag gctataata 180
ttttaataat tcacaccctt gacttagcgt gggttgttgt gtattttgct tttctttta 240
aggnnntttt agatt 255

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ccgtccctct cagacacact ttgtaatgtg tttagagaaag tctgggtggg ctttataagg 180
ccgtcataaac tggtaaccgcg caggctgctt gggaaaactg atggccgggt tgagtcccac 240
cgtgaagcga tgcgg 255

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aggcaacagg aggcgtgtat tggatctaga ctgatggcaa gaaatcttta ttttccattta 180
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ttagaacatcg 250

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cttatgtat catgtgtgagg cgccttgcaa atccgacaat taacgatctt cctagacctt 180
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tcttaaagg 250

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cagcattttc ctcataaaag ggctttactt cttctgaaaa catttataaa aaccaggtca 180
acgagaccaa atgtatgaca ggtgacttca gagcgcacctt tcttgcttcg taactgcfgaa 240
gaacgggctt 250

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<400> 512

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cctaaaaata ggggcattcac gttttaacagt ctgaactccca tgtcacgtaa 180
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caattttgtt atttctgtta actttcacaa aggacacccc aaataccac aacagaagtt 180
accgggtttt tgtctacagt gactgcctgt gggccacgccc atctaaactg agagggggaa 240
agatccatgt ttcaa 255

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tacatccact aacaatcaat cccaaacccac cataaatagg tgaaggcttc aacgccaacc 180
ctagacaacc agtcaaaaac agttaactt aaataaacat ataatttgtc attatttcta 240
cacagcattt aactg 255

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cagtgcgtgcc tcaggattca gttagggatg cacccaaaggc ttctggagag cgtgtggta 180
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cagcaccaggc tccgt 255

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agaaggaaga agaaaactaaa atgagcaatg gagacggatc cgagagcaat gtgtctgggg 180
atccctgtcgt gaagtgtatgg gatgcggcgtc tcagacatgt cgtgtttcc agagactgac 240
atggatgtca 250

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<212> DNA
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acctaaggca agaggatggt ggctgcaaaag aaaaacgaaaa agtctctggaa gtcaatcaac 180
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aggcggtgtc tttagcttagtc ctgttggaaac aaccaatcaa gtttggaa aagagcataa 180
cacatttagaa atacccaaat tatgcttctc tgaaattaaa aaaaaatggaa taaaagaact 240
gagatattgct ttaat 255

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tgccttgggtgg atcaaggcag aaatgctgaa gatgatgttt ctgcagacat ctgtcatagg 180
tgttttcacc acactccggc tggcttccag acacctgttag cgctggaaagg tttcccaggc 240
actgttgggtg 250

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<211> 251
<212> DNA
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ccaaagataa tatattcaact ctaaacttgg ccattctaagc caattcttct cagtgacctt 180
gaccttctaa ctcatcttgc caccatatac ttcaagagtga tcaaccacca taaagggtggc 240
ccatagatgg 251

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<212> DNA
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aacatggcgt tcagcatatg ctacaaaatg gcactgtgtc ctgtgtaaa aggcttcaag 240
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ctctttctt accacgggag ccagacatcc attcaacact gtttatttctt acactgttcc 240
acagcgagggc ctgggg 255

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taaatatccc ttataacagt atatacaaa tttttacaaa atgggttcac ccgacttagt 180
aattttccaca aaagggtcca gagaacatcaa taagggggag aaaaaaaaaatc tgggttcac 240
aaaagccact t 251

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tatgtggatt ncaanttgct gtgcattttt ttgtccaaattt tactgaggg gagggcatat 180
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<213> Ratte

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ttgatactttt tcttactctt gttttttttt ttaattttt ttaattttt tcaatttgc 180
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gtgcactt tctcccttttcc tctgacgtttt ctctccatcc ctctcccttcc tcctccgacgg 180
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gtgaaagtgg ctctt 255

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aaaagtgtcc acgcacaccc gtatgtgac aaccttctat aatctgcctt tagtcccaca 180
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ccatctggga agact 255

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gcaagaacca aatgcactgt gatgtggcac caactaatta gcaagcatga ctttttcacc 180
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tttttttctc aggca 255

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<213> Ratte

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cttcagatga gctgctccgg tggatccgccc catcaactttt catactgtgg aaagtcttct 180
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<211> 255

<212> DNA

<213> Ratte

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aaaacaaattt acttctagaa tttttctta gtatccat atcacagttt attgtggca 180
gcaagattt cagaaagcaa agccacaggtt aaggggaaatc cactatgttc aaatccccat 240
tcagtggaca ttctt 255

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<213> Ratte

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gtgtgtgtcc acttacctt gtgcagacgt gcacattgcg tatgtgtata tgcctgtctc 180
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gggggttggaa gtgttgcaaa ggagactgta ggactaagta tattttgtt ataaaaaccag 180
caatatcaac agatgtatca ttcacttct aattttttcc cctcaagaac aatttgaatc 240
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<211> 255

<212> DNA

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tgctttccca actggaaaag gtgttttacc acttccggc gggccggaaag gagatcgccg 180
aagcggaaatg gcggtatgata gactttgtcc acgtgtttcc tagcaacaca gttagatgagg 240
ggtatgttta cggcc 255

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<211> 149

<212> DNA

<213> Ratte

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caaatgcgtgg ggttaaagga gtgtgttag 149

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 agaagaagga ggagg 255

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 aagtgcgaag agtcc 255

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 gaacacggag 250

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 tactctgccc tacatgtatt cccttttac acggggccctc caccctgcag acttacagaa 180
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 gatcccttgcac tggag 255

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ccgcacccccc ccatccagca ctgcacccac ctgaggacat taactgggtat ttgatggcca 180
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<212> DNA

<213> Ratte

<400> 556
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<210> 557

<211> 255

<212> DNA

<213> Ratte

<400> 557
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<210> 558

<211> 255

<212> DNA

<213> Ratte

<400> 558
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ccatgcttac cgtggagcac attctaagat aatatctgtt gatactgtta acagaggcca 180
gactccgagt tctggccatg gaaacaacat ggccggtgcc tctctgtttg gcttctggac 240
tgcaataagc cagt 255

<210> 559

<211> 255

<212> DNA

<213> Ratte

<400> 559
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cttggtaacc ctctcttccc catccttcag tggccatacc ttctctgggg aattttcatc 180
ccgagtcoca agatagagct ctttggaaaa agctacccaa gattatggga gtaaatgcaa 240
tgagtgtatctt ctct 255

<210> 560

<211> 251

<212> DNA

<213> Ratte

<400> 560
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ccacccggc agatttaggt ttatgcacga gaattctcg aagtccatg tgattcagaa 240
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<210> 561
<211> 255
<212> DNA
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<400> 561
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taattttttaa tgcttcaaa ataaatgttc ttaaaaatctt tggttacgg ggtttgggat 120
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ccgaaaaata aaaaagaaaa aaaaattgtg ttactcaact ttaaatgtta aacagtaatt 240
ttgacgaata attgt 255

<210> 562
<211> 255
<212> DNA
<213> Ratte

<400> 562
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acaaggcctt tttggccctc ttgcaagact acctggaagg aatacatgtc tccttgcctg 240
tcaatgacac agatgt 255

<210> 563
<211> 251
<212> DNA
<213> Ratte

<400> 563
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gatcaatatac atcgttattt accgtgatct caccacttgg tttcattttt atgttagatct 180
ggccaccgtt gcgttaaggac gtgaaacaga cgtgaaacgg ggcgttctga atgttactgt 240
tttctggcaa c 251

<210> 564
<211> 255
<212> DNA
<213> Ratte

<400> 564
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cgctttttttt ctcagccac actgaagtat ttgtttgtttt tttttttttt aacatccac 180
ttcacagtc tttttttttt ggcagctccc agggcgcttc cttttttttt cagctctgtac 240
aggagcagat tccac 255

<210> 565
<211> 255
<212> DNA
<213> Ratte

<400> 565
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ttaacataga gggatattt ttgaagatgt aattttttttt tttttttttt tttttttttt 240
tactttatctt tgtag 255

<210> 566
<211> 255
<212> DNA
<213> Ratte

<400> 566
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tgcccagggc cacggccctg gcagagcctt ccctgtggaa gcaataacta gtttctgtga 180
gagaacctga gccgggagag ccgggcacgt agccagactg ggtcacagcc tgcatctcta 240
tccccgtgtc ccctc 255

<210> 567
<211> 251
<212> DNA
<213> Ratte

<400> 567
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gtgaatgaag ttacctcggt acaacagcat taaaagtaa gttttgtgtca agccacccctc 180
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tgagaatgac c 251

<210> 568
<211> 255
<212> DNA
<213> Ratte

<400> 568
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atttcttagt gttctttca cagtgaacat aatccaaatg cttggatatt ttttagaagt 120
cttttaactt tacacaaata atgaaataat tttttttta aattcaaagt gtctcacccct 180
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gagtgagtga aatgg 255

<210> 569
<211> 255
<212> DNA
<213> Ratte

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cggnaaacct ttnngaaanc ccnnntctca cnatacggcg agnngaggcc ctctagcatg 180
catgctcgag cggccgcccag tggatggat atctgcagaa ttccggcttc nacggccgc 240
ccggccaggt accct 255

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<211> 255
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<213> Ratte

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ttttgaaggt tggaaagggc aaacwcwhhh watggctgc tgaccaatgt ckctcgctgg 240
ctgggtgtca agact 255

<210> 571
<211> 255
<212> DNA
<213> Ratte

<400> 571
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tttagaggag ctgcc 255

<210> 572

<211> 254

<212> DNA

<213> Ratte

<400> 572
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gacccaacag gaacaahaaa aaahhgtgtt atthnnngcc cnnnnnnnnnn cttgagtttc 180
taaactgtca gtaaggcagtg aaagggtgtcg gattaactac ttggtaatgg ccaggaaaaat 240
acgatgaaga tggg 254

<210> 573

<211> 241

<212> DNA

<213> Ratte

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<210> 574

<211> 255

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<213> Ratte

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<211> 255

<212> DNA

<213> Ratte

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tagtctaaaa tctaa 255

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<211> 255

<212> DNA

<213> Ratte

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ggaacaaaaat actcacagga ggaaaaatgg agataatgtg tgaaacagag actgaaggaa 180

aggccatcca gagattggca cacatgggga tacatccaa atgttagtcac ctaaccagg 240
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<210> 577
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<212> DNA
<213> Ratte

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aagtagagaa gcacaaaagtc ctgaagcacc cgcaattatt ttaatcagga aaaatgataat 180
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taatcagagt ttgtt 255

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<210> 578
<211> 255
<212> DNA
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aagatacagt gcgaa 255

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<212> DNA
<213> Ratte

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gatattgttt taaaactatg ccattataaa atagttatca tcttagggttt agtaggtgc 180
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<210> 580
<211> 255
<212> DNA
<213> Ratte

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<211> 255
<212> DNA
<213> Ratte

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tccccaccaag tgttt 255

<210> 582
<211> 255
<212> DNA
<213> Ratte

<400> 582
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atagagatcc aatttccttta gtacctgccc gggcggcccg tcgaaagccg aattccagca 240
cactggcggc cgtta 255

<210> 583
<211> 255
<212> DNA
<213> Ratte

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gtttacatgtt ttctcccttcc gaggcgttctt tttcagagaa gaatcagttt ttgatctttt 180
atagtccgtg ctgttggaaa acaagctttt tctttcccccc aatgtatgacg cttcatttttt 240
gaagtgttga agctg 255

<210> 584
<211> 255
<212> DNA
<213> Ratte

<400> 584
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ccgtggtagtcc gggccgaggta caagctttttt tttttttttt tttttttttt ttttttttagga 180
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ctntnttattt aacag 255

<210> 585
<211> 255
<212> DNA
<213> Ratte

<400> 585
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gttttttggg gccac 255

<210> 586
<211> 255
<212> DNA
<213> Ratte

<400> 586
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gccttaccc ttgtcattcaa gcaaaaaggaa aaaacaggca aaagaaaaaa gggggatggg 240
gagaaagcac tggcg 255

<210> 587
<211> 255
<212> DNA
<213> Ratte

<400> 587
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acagaatcat attaa 255

<210> 588
<211> 255
<212> DNA
<213> Ratte

<400> 588
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atntctgcag aattcggctt tngagcggcc gcngggcag gtgtttcaga antcaccagg 180
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aacagtccacc ccata 255

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tataagttaa aaata 255

<210> 591
<211> 255
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ttttcttatac tattt 255

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<211> 251
<212> DNA
<213> Ratte

<400> 594
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agtgcacaca gacgtgcact cttctcatga ctgcaacagt gatcgggaag aggaaaaccc 180
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ccattttgaa a 251

<210> 595
<211> 255
<212> DNA
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<400> 595
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cttgttagggg ttttg 255

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aggatacagt ttttg 255

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aggtttaagt tcagttgcattt ctagatttca gaaacatga ataaaatitg attagattcc 180
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gcatttatga gccga 255

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<211> 255
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aacgaaagat gatgaagggg caaccctgt taagaggcg cgagttagca gtgtatgagga 180
gcacactgtt gacagctgca ttggagacat aaagacagat gccaggacg tcctgacccc 240
cactagcacc tcaga 255

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gatcatccgg tttatatttg tgcaatttcc ttttcctctt ttctgcccccc ccccaacctt 240
tgaggcatct gctcc 255

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attcatttca gtatgttgc gtaaccaggg agtttgtata ggacatttgat atttaccctg 240
gttgcgttga a 251

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ccagtttcca ttaat 255

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<400> 602
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<400> 603

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aaataaaaac aggaccagaa acagtgtctg tttgggttgc ggtgttcccc ccaccccaca 180
gcaatgctga agtctgttcca tccagttcca agcaaataca gagcaattttc aaccaacacc 240
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<400> 604
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aaaaaagtctgc atatcccaag gcaacaaaacc ccacagaatt cccgaaccaa tgggcgttgc 240
aaaaggaaagt ggagc 255

<210> 605
<211> 255
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aacatgccga ccatctatgt gtgcactgac aagcttatgt taaaaacttt taagaataact 180
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aattaagaga atata 255

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gtttcaaata atttg 255

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ccacagagac gctat 255

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gaagagggagg atctttctgcg agtagaggcg cagcttagct cggataaaaa agcagtttag 180
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<210> 609
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tagcttcctt atttggtgtt caactacagg gaacagacta ggcccggtga gcacagggtt 240
gggagactgg agaaa 255

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<212> DNA
<213> Ratte

<400> 610
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gataaaataa aataattatt aaaccataaa ataaccctt ccacttctaa tcttctgaaa 180
gcaacaggca ct当地tgc当地 200

<210> 611
<211> 251
<212> DNA
<213> Ratte

<400> 611
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attagtc当地 ggat当地tgc当地 aatctgc当地 aaaaaggaca atgtt当地tcc agt当地tgc当地 240
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<210> 612
<211> 255
<212> DNA
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<400> 612
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caagttgata ggcacataat acaaatttgg taaaacgtgt ctc当地gaggct aacactgaa 180
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attt当地gttcc agcat 255

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<211> 255
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ggtcttgc当地 ggtagc当地tccaa gaagaggctt aacagagaag agggaaaggcc caccctagac 180
accagtagca ccattccacg gactgggggtt ataggctgaa tataaaggta aaagcaacgg 240
agcaccoggca ct当地tcat 255

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gttagcatgtt ttcaaaaaaaaa tgaccattttta ctaaggataa aaagattaaa aagggggtgcc 180
tgccagagatg gttcaatggt taagtggtcc tgagttcaat tcccaagcatt tacatgggtgg 240
cttcacaaatca tctaa 255

<210> 615

<211> 255

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<400> 615
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ggacgtgtttt ccacctgtcg catggaaataa gaatataatac aacaaaggtt ggctttatata 180
aaaaaaaaaaag aaacccat atggacaacg gggggggccaa accaatgaca catgcagttt 240
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<210> 616

<211> 251

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gggttatgaa gatatgcaaa atcctgttcg ttttagagcca ataaaagtttt aactgatgg 180
caataactggt ttagaaattt taggtttttttaa accatagc tttttcagggt ctgaaatcat 240
tttattggca a 251

<210> 617

<211> 255

<212> DNA

<213> Ratte

<400> 617
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aggtgcctat cctaggctta gagagagatg agtagacaga gaagttcagg ctgagattgg 180
gcagaggaag cataggcagc agaaaatgtt aagtagtttta gatattaagt taatagatcc 240
tgatatacgng gctcc 255

<210> 618

<211> 255

<212> DNA

<213> Ratte

<400> 618
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tgagctggctt cacaatggc acaggttccaca aggagactca ctggctgtcc atagccacca 240
gacacagaac tgaac 255

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<211> 100

<212> DNA

<213> Ratte

<400> 619
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<210> 620
<211> 255
<212> DNA
<213> Ratte

<400> 620
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taaactaaca cattatataat gaaaaaacact ttacctttt cccactccaa gagtgagctt 240
taagggggctc aagag 255

<210> 621
<211> 112
<212> DNA
<213> Ratte

<400> 621
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<211> 253
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aagtaatgaa gga 253

<210> 623
<211> 255
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<400> 623
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aaaaagtgtat agagt 255

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<211> 255
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<400> 624
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agacagcatt gtgt 255

<210> 625
<211> 255
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<213> Ratte

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<210> 626
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<212> DNA
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<210> 628
<211> 255
<212> DNA
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tcagccacag tgact 255

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<210> 629
<211> 215
<212> DNA
<213> Ratte

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gttagacata cctagcttca ggatttttc ttatgcchht tctttatttt gttacacata 180
atctgtctcag attctracagt aatgttctta gatgt 215

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<211> 255
<212> DNA
<213> Ratte

<400> 630
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 agaaaaaaaaag gktataatgc cmaaaaamaaa aaaataaaaac ccaaaacmga traaaaaaaga 180
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<210> 631

<211> 255

<212> DNA

<213> Ratte

<400> 631
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 agarattaga aaaatatgag ctttagagttt gagacgagaa tctgtgggtt aaagcatgga 180
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<210> 632

<211> 254

<212> DNA

<213> Ratte

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 ataaaacttt cttcacacaa ctttagcaga ttaayygtaa ahgtatggg aataargttc 180
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 ctggttwgcy atcc 254

<210> 633

<211> 255

<212> DNA

<213> Ratte

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 gttccctccg ctccctctcc agctctatca tctccctcaga gggcctcaact ttccggatgc 180
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<211> 255

<212> DNA

<213> Ratte

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 ccgcttanac gcctttcacc ttgggcaagn agaccaagga aggacacagc nacnactaca 180
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<211> 255

<212> DNA

<213> Ratte

<400> 635
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 gagcccttgg tggctggctt atgcctgtt gagggtatgc tggtagccat gtccacaggg 180
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 ttgggttgggt ttttg 255

<210> 636

<211> 255

<212> DNA
<213> Ratte

<400> 636
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cgcgtccccga tttggwtccc acacatttgtt tcctctgaat gctgttgtgt ttgtctaagt 120
tgggcattgtt agaccttaag gggtgggtgtg tgccawgmmt gcacctgttt ctaggcagt 180
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cagggatata ggtgt 255

<210> 637
<211> 255
<212> DNA
<213> Ratte

<400> 637
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aaccaaaaatc gtagatgant ccacctgttc cctncacatc tttggaaaaga gtcttaagcgt 180
gacacccaaag aacacattac tggcttggcc tctggnatag acacagactt gggcaaagca 240
acccttgctg gacat 255

<210> 638
<211> 255
<212> DNA
<213> Ratte

<400> 638
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gtggacacatc ggggggtgggg ggcttgcana gaacacaggt atttccagat agtgcagct 180
tatttgaaaa tttaattttt tttttttttt taactatttt aacccttggag tggcttctt 240
ttaaaccaaa aaact 255

<210> 639
<211> 219
<212> DNA
<213> Ratte

<400> 639
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tattttctca acggnttctg cagtgaccat agnngaagaac ccacagcagc tggggccccag 120
ggncacaagg gatgtgcgc tggacatcaa aaggngacag actgaaaatga gcaggactga 180
gctgctggct tggncntnnc acaccagcgg ncttnacct 219

<210> 640
<211> 255
<212> DNA
<213> Ratte

<400> 640
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tctcccttctc atctcatca agagactctt ncacctggng aatgactca gcanacacag 180
tgctcagggc catgttcaga accgcagaag ncaggctctg ggccnnctc catccgttca 240
ncagggctcc gggaa 255

<210> 641
<211> 255
<212> DNA
<213> Ratte

<400> 641

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aggatcgact gcaggacagc agtgaccctg atacttgcag tgaggaggaa gtcagttagcc 180
ggcttgtcccc accccacagt ccacgagact tcacccgaat gcaggacatt cccgaagaga 240
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<210> 642
<211> 255
<212> DNA
<213> Ratte

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ctttgtcagg aaacaaggct gacttagcaa ataaaaagacg tggttgacttc caggaagcac 180
agtccatgc agatgacaac agcttattat ttatggagac atcagctaag acatcaatga 240
atgttaatga aatat 255

<210> 643
<211> 255
<212> DNA
<213> Ratte

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<400> 643
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aggjccgcta cagcctgtcat ggctctgttg accactttcc cagcctgtaga gaccctcatga 180
accacctaag gaagcgatc ctgcgcacgg acaaataaa ctttgtgtcg aaacgctgtc 240
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<210> 644
<211> 58
<212> DNA
<213> Ratte

<400> 644 tcagtccacca ccactgaccc agaacgcagg cagttccctgc taccggccca aaaaaaaaaaaaaaa 58

<210> 645
<211> 255
<212> DNA
<213> Ratte

<400> 645 agctttttttt tttttttttt tttttttttt ttggtaggc taatcaattt tattaactcg 60 tgcttttgc aagacatttgt cctgagaaag tccaagacac actgccatag tagggagaaa 120 gatcacaggg aaaatggaga tgggatttag gtttgaagg actgtagcaa aatgtcaagg 180 tcctcagaga aagggagttt gtttgttaag ttaattaaaa gttgcctgtct ctgttaattgc 240 agaagtgtt cctgc 255

<210> 646
<211> 255
<212> DNA
<213> Ratte

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<400> 646
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attctgatat tgtaaaaatg atcagtgcta acatcttccg gacacttcc ccaagtgata 180
accaggactt tgacccggaa gaggtatggc ccacacttga ggcctcttgg ctcacataca 240
gctgggttat gaatt

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<210> 647
<211> 137

<212> DNA
<213> Ratte

<400> 647
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taggaacAGC gcagtat 137

<210> 648
<211> 255
<212> DNA
<213> Ratte

<400> 648
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cttgtccagg ccattctccc tcggggaaatg tgctgggtt cttcgaggGG aagatggatc 120
ctcattggac acatcaacta ccaagttgtc atcaactttc tcaccatcac tgtcatagcg 180
agctggcaatt tctttcttctt ctgttttctg cttcttgctc tctgagGAAT agtctgtaga 240
gttcctgtgt ttctc 255

<210> 649
<211> 255
<212> DNA
<213> Ratte

<400> 649
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tgcagtaact cttgcgtgttc tatttaacaa tgcctgttg ctttgtatgc attaacgttt 120
gggtgtaaAG attgtgtgtc catccaacAG ggagccacAG tatttaAAATT gaccaacctg 180
atgttacaAC tttgaggtgg ccaaatagtAA actaaaAGCC ttaatttaAG tggtgcaatt 240
ttgtataact taAGC 255

<210> 650
<211> 255
<212> DNA
<213> Ratte

<400> 650
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ccaggggccgg agtcaacgt aaatagaagg cacagtgttG cttggtttttG tcatcagatt 120
tggggttttgt ttttcgtgttG gaatttttttG tccttttttC tttttttttt tttttttttt 180
tttttttttta caaatacaaa taaaacatGA aaaactctac ctcaaaaaaaa tctaacagtt 240
caacaaaaAGT cttttA 255

<210> 651
<211> 255
<212> DNA
<213> Ratte

<400> 651
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accagggtgag tgggtgttGAG gggacaAGGG aaacagaAGG caggcctgtc ttgactctgc 120
gcatctgtct tctcatcctc acccagctgc gttactatGA ccaccgagtG gacacagaAT 180
gcaagggtgt cattgacctg gcagaggtgg aagctgtggc acctggcaca cccaccatAG 240
gtgccccctaa gactG 255

<210> 652
<211> 255
<212> DNA
<213> Ratte

<400> 652
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ccagccaaAGG gttgccttaa attgtgtccAG ggggtttatG accgagtGAA caggcctggA 120

tgtcgttgtataaaactcaaa tacagtttgc tgcaaagttc ccactgtccc cccaaaggAAC 180
tttggaaaagc cgacatagcg ttattaaatca ggaataactgc agtaatgagg attgttgccc 240
caccccccacc ccctt 255

<210> 653
<211> 169
<212> DNA
<213> Ratte

<400> 653
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tcagttggc tgggggtca aggctggta cggcgcccccc acttaggttgg gacgggttcgg 120
ctgtccccgg cccgggtgt tgctgtgtgt gtgtgtgtgt ctgtgtgt 169

<210> 654
<211> 222
<212> DNA
<213> Ratte

<400> 654
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tgacccatca ggtccctcac ctgctcagct tttccaggat tcagggcttc tctacatggc 120
ccaagagttt ccagtgcctg gcagagccccg ggcgcacaagg ttgccagagg aaggggggcag 180
cagccggggca gaggactttt cagagggcoa tgaggaggaa gt 222

<210> 655
<211> 255
<212> DNA
<213> Ratte

<400> 655
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tgtttccgca actccccctg tagtttttc tacgaggctt aaaacagctt caagaacatc 120
tgcaaaaaag catcccaaga aatctgttgtc taagatcaac cggggaggaa atttcaggcc 180
agaaacaagg gatagtagat ttgattccaa agaaaagctg aaggaagaga aggttgtctc 240
cttttagccaa acact 255

<210> 656
<211> 255
<212> DNA
<213> Ratte

<400> 656
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natcgacgnt gtcnnngtgg tnnntnchanc gongnnttn ngtnnnccint ntggnncgac 180
taactacagga tccgaactnt gntaccncta cctggagtga acannnccat anctctaacc 240
tgtgttggaaa tgcgg 255

<210> 657
<211> 255
<212> DNA
<213> Ratte

<400> 657
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cagcgctgcc ctccagagct ttccctcgct tgaccctgtg tcagggcc ctaggtctg 120
cttttccatca ttttttagctc agggaaagatg tcaggctcaa accacttcic aggttaatgg 180
accctgtccg ttgcctctgtg caactgttag cagtatttta agggagaaga taaggcaggg 240
agagagtaggg aggtt 255

<210> 658
<211> 255
<212> DNA

<213> Ratte

<400> 658
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tactccggat cttgtttca cctwccctag cacaccagag ccttgccctt cagcccatcg 120
aaagagtagc agcagcaggc gtgacccttc ctccgacccc ctaggttcic ccacactct 130
ggcccttgta ggcacccaggc cacacccctt gcaggtgcta cccgttgtca tctcccttcc 240
ctgttcatcc agcag 255

<210> 659

<211> 255
<212> DNA
<213> Ratte

<400> 659
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tccctgctctg ccttaactac tggaaagctgg agacccttc tcaattccgg cagcgatccc 120
ggtctggagga tgggtgttacc tataaggctca attataccag atgggtctgt tactgccacg 180
tgcctcagag ctgcgcacaggc ctcccccgtat atgagaccac ccatgtgttt ggccgaaggcc 240
ttctcgccgtc cattt 255

<210> 660

<211> 255
<212> DNA
<213> Ratte

<400> 660
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ntagangcta caaaaannta cagngantgg ancnaaggct aangncaacn tggangcctc 180
nannncnttc atgnncntgg acatatcngc tanngacttg ataaacatcg agagcttctt 240
cagtgcgagan gtgtc 255

<210> 661

<211> 85
<212> DNA
<213> Ratte

<400> 661
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gaggggtttt ttgacatcct gtggg 85

<210> 662

<211> 255
<212> DNA
<213> Ratte

<400> 662
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ggcttgggtt gggccgagaa gctgcttaggc cctgctacag tctggcgcta gcacagctgt 120
tgcagtctt tgaagacatc cagttgtgt acatcctggg acagatacca gaaaaataacc 180
atctacaagg aatgacacaag ggcatggatg aaacctattt tttttgc当地 cctgtttgaa 240
ggcttggccc ttttt 255

<210> 663

<211> 255
<212> DNA
<213> Ratte

<400> 663
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gcagagcctc gatgaatggg tggaaactcat cctgcggaga ggtggggaaa ctgangctca 120
ggctgtccca catagatggg gaaaccaaag cctggataga ccttccactg atggagagga 180

gggtcaggaa atgaaagccc tggatagctt actaggactt ccaaggagat gaccggggcc 240
aagctgagga cctta 255

<210> 664
<211> 255
<212> DNA
<213> Ratte

<400> 664
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ttttctgtt tttttttttt ttacaagct aagaacctag aatagagctg tctgcccgag 180
cctcctaaaaa caaaagttaa caattgtta agccacagta tccttttaat tgctaataat 240
caacctttctt ttccc 255

<210> 665
<211> 253
<212> DNA
<213> Ratte

<400> 665
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gnatgaaatc tgcgnctga gtaanacant ntcnnatgnn tatactttt ttgnntnatt 180
tctgaggtaa gaatgttnga gacaaacntn tggggcatta gattctaga ttaaaacaag 240
tccaatgtgn acc 253

<210> 666
<211> 255
<212> DNA
<213> Ratte

<400> 666
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tggagtaagg catgtgttc ggggtctaattt ggaggaagat gctgagccca tcttgaaga 240
tggatgatgatc tcatc 255

<210> 667
<211> 255
<212> DNA
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<400> 667
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gcaatcttag cattcaacac ttcttccgc atctgtgggt gactgaagtc ctatcaacg 180
atcacacccctt tataaagtttt ggtgtccccc acggcccccac ctactttgcc ttccactttg 240
atgagttcaa agtca 255

<210> 668
<211> 243
<212> DNA
<213> Ratte

<400> 668
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gaggaccagt ccttagggctt tgctctcg aagaacaccc ttaggttaatt tttaaaaact 120
tttagcatcag gctgctgaag tgcttgacag aactcctgaa ttatctgg agcgacttgc 180
aaggagggca ggtatttttg ctgaagatac tgaacacatt cggggccccg tttagatga 240
att 243

<210> 669

<211> 255
<212> DNA
<213> Ratte

<400> 669
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tcgagtgaat gtggcagttt aacataccgg catttttgg acttgcataat tttagctggtt 120
gaaacagagt tgtttccttc ctgaatttca aagataagac tgctgcagtc gcataacaat 180
attcagtggtt gaaatcttga ttgttactgt cattccatt cttttgcgtt agaatacagaa 240
taaagtgtt tttca 255

<210> 670
<211> 255
<212> DNA
<213> Ratte

<400> 670
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tgcttcttattt gctggagcat gctactgtgg cataggact ttaattttttt ttttttaattt 180
tcataatctttt tcattccact gtgtaaatgtt ctagggaaattt tccaattttga agtttttgctt 240
tttctgacat tggca 255

<210> 671
<211> 127
<212> DNA
<213> Ratte

<400> 671
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tcctgnggnc cgngatggac attcancttg tnnccctganc aagatcatat nccncaaaaa 120
ngtacct 127

<210> 672
<211> 255
<212> DNA
<213> Ratte

<400> 672
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gtcttcatga tgagggtcaac tccaaatgcgc tcagtgtcat aatacgcata cttcactgtg 240
agaggggttga acatc 255

<210> 673
<211> 255
<212> DNA
<213> Ratte

<400> 673
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aagtcaatga aaccgacttg aaacagattt atcccattt angctcccaag gaagatttta 120
aagacccctt acaaagngcc aaaaaaaga gcatttcacat cattttggac ctcactccca 180
actataagggg ccagaatgca tggttccctcc ctccctcaggc tgacatttgc gccaccaaaaa 240
tgaaggaggc tctga 255

<210> 674
<211> 255
<212> DNA
<213> Ratte

<400> 674
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gcaatcgta agtgttactg gaaatcttac ctgattttgg gaatttttac gttaatgttag 120
gagaccaccc gagtagttca gcccataattt ttagggaaaa ttatttgatta ttttgagaag 130
tatgactctg acgactcggc cgctttgcac acagcttacg gctacgcggc ggtgtgtcg 240
ctgtgcacgc tcatac 255

<210> 675

<211> 124

<212> DNA

<213> Ratte

<400> 675
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ttct 124

<210> 676

<211> 255

<212> DNA

<213> Ratte

<400> 676
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caaccagaag agtctctggac gatgtctggat cttttttttgt ttgaatgtta tgagacttcc 180
attcatgaaa aaatttaaca ttgaagaatt tgagtttagt cagtcttacc tgtttttttg 240
ggacaagggtc gaacg 255

<210> 677

<211> 255

<212> DNA

<213> Ratte

<400> 677
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ccggaaaagggtt cggcaactgac atccaggaca acaaattgcag ctggctgggtt gttcaagtgt 180
ctgctacgag ccactccatca gcaaggcgcca gatcttagag gagaattatg ggcagaaaagg 240
acccacaaaaa agtgn 255

<210> 678

<211> 255

<212> DNA

<213> Ratte

<400> 678
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gttaattaaa aaaaaaaatca agaatgctaa ctatgtaaaa tattatcaca tgaaaaccaa 120
ccccggatata acaaaaacaac cttatgatta gacacttaag acctcgatttt tttgttaac 180
tagaaaattta caccaccana agttcctgtat taaaatacag aaatctataaa agctggcgca 240
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<210> 679

<211> 127

<212> DNA

<213> Ratte

<400> 679
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<210> 680

<211> 205

<212> DNA

<213> Ratte

<400> 680
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tgggagtcgt ttccctcaag agcgatggca tcattccatt cgcggatggc atctggcacc 180
tgttcgtggc cacagccgnc gcccgt 205

<210> 681

<211> 255

<212> DNA

<213> Ratte

<400> 681
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gcatttaggcc tttaaatatgc caattttggt aatcacatta ttgttttaat aagaaacgac 120
tctacagaat tgcaatactg gtccaacagt cttgttttc tttaaagca agaaacagaa 180
tgtaagtaac cagaaaggcag ggcaggcatt agctaaccctt ggagacttgc ttcttagatc 240
caagcgtttt cagag 255

<210> 682

<211> 166

<212> DNA

<213> Ratte

<400> 682
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cccacagact tttcttgctc atgtctccag ctactatatac ctggcangag ggngncttgg 120
aagcatactg antntgcacc tatnctgtct cccanagagt cttgnn 166

<210> 683

<211> 255

<212> DNA

<213> Ratte

<400> 683
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<212> DNA

<213> Ratte

<400> 684
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<210> 685

<211> 255

<212> DNA

<213> Ratte

<400> 685
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gattatttttt tgacaaaaca gggtagcacr agagcaggag atgggtgggg cccggacacgc 240
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<210> 686
<211> 255
<212> DNA
<213> Ratte

<400> 686
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ttaaacngca ttttatatcc tgaagacat nttnattna ctctnaattc caccatntcc 180
caccagttt tttccctnac caacatgcaa gttttttcc ctntctgcca nccaggccag 240
nagggtggcg gcana 255

<210> 687
<211> 255
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<400> 687
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gtgaaaagct gaaat 255

<210> 688
<211> 255
<212> DNA
<213> Ratte

<400> 688
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tcctgagaga ttttc 255

<210> 689
<211> 241
<212> DNA
<213> Ratte

<400> 689
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t 241

<210> 690
<211> 255
<212> DNA
<213> Ratte

<400> 690
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naagccaaga anacc 255

<210> 691

<211> 252
<212> DNA
<213> Ratte

<400> 691
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aaaaatgaag ttaaaaacaa aatcagtgtt aagaaggctt ccttcctgca cttgtttttt 180
aatcatctcc tccacagaga atgaggagaa ctttcctgta gtctccagaa gtgtcgcccc 240
tgataaaaaga gt 252

<210> 692
<211> 242
<212> DNA
<213> Ratte

<400> 692
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nctctgttga tccgaagaga gctgacagag cgtgccaagg acttcagccct catactggac 180
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aa 242

<210> 693
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atgggcacca tgaacagaca gctgaaattt ccccagatcc agaagatcat gatggagttt 180
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gcaatgggtg atgag 255

<210> 694
<211> 255
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aggaaatgca ggacaagaag cgagatagtt tgatgggacg tccttgcac atggtgagct 180
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tggaccgctc aggaa 255

<210> 695
<211> 183
<212> DNA
<213> Ratte

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tcctgtccgg cgggttaaaccc aggagcagta ggcgtgcag gaaccgagggtt aggaagggag 120
tgggctgctc cacaacacgc ggcagaagca cccgggggggg aggctgaccc cccggggagag 180
gcc 183

<210> 696
<211> 183
<212> DNA
<213> Ratte

<400> 696

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183
ngt

<210> 697

<211> 255

<212> DNA

<213> Ratte

<400> 697
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atccctttgg ggaaa 255

<210> 698

<211> 245

<212> DNA

<213> Ratte

<400> 698
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caggtctgca atcgcaggag ccacgacacc agagaaagct tcttcaactg gttttccaac 180
cacagcctnc cagaagctga cagaatttgtt gagattatca agaatgaccc gtgggttaac 240
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<210> 699

<211> 166

<212> DNA

<213> Ratte

<400> 699
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<210> 700

<211> 194

<212> DNA

<213> Ratte

<400> 700
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ccgggcttgc gtcatttca tccttgntcc tcgggtcagt gacgcacatgc ccccgccccgc 180
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<210> 701

<211> 239

<212> DNA

<213> Ratte

<400> 701
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<210> 702

<211> 255

<212> DNA
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<400> 702
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gatctggctt gtgcctcagtt ccccaagggg tggggatg caagcagaag tcagcttaa 180
gaagccccatg cccacgaagg tggctttat gagectatgc aaaagctttt gggactgtgg 240
actggtagcc ctggaa 255

<210> 703
<211> 255
<212> DNA
<213> Ratte

<400> 703
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gagatggctg ctcaa 255

<210> 704
<211> 255
<212> DNA
<213> Ratte

<400> 704
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tgatcaagggtt ccaac 255

<210> 705
<211> 255
<212> DNA
<213> Ratte

<400> 705
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ggaatgttat atata 255

<210> 706
<211> 255
<212> DNA
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<400> 706
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ataaaagcagg gtggacctgc cccttcctn ccgacttccct tccacactgg gttggaaagg 180
gctatcatgc ccaagtccgaa cggaccaagg tggcagatgg gttaggggtgg aagagttgggt 240
gcacaaatgc tcaca 255

<210> 707
<211> 255
<212> DNA
<213> Ratte

<400> 707

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ccgcgatgtg gcagggtgaca tctccacca gcaggcgaag cgtaacgcgc tggtcattccg 120
tgtcagccc aatgaggcggt tatcacccaa gatgatgacc aagaagccgt gcatgttctt 180
caacccttag gaggctgagc tggacctaac ctatggcaac agatacaaga atgtgaagct 240
ccctgatgcc tatga 255

<210> 708
<211> 107
<212> DNA
<213> Ratte

<400> 708
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cccatgtcg agggtgcggcc tgggccttcg tcccaacaca gacaaag 107

<210> 709
<211> 163
<212> DNA
<213> Ratte

<400> 709
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ggcctggatt taaaaaaaag aaaaaaaaat aaagagcaga att 163

<210> 710
<211> 255
<212> DNA
<213> Ratte

<400> 710
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gagaagagtg catcgctgca gcaacagatt tcagacgacg caggagcaat cacggcggcc 240
agaaacgagc tggatg 255

<210> 711
<211> 255
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<213> Ratte

<400> 711
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caatgacgca gccatacttc aggtcccaga ggtgactggc cacctgacca cccaaagaggc 240
tgggtttctt cggtc 255

<210> 712
<211> 255
<212> DNA
<213> Ratte

<400> 712
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agaatgtgga gcaca 255

<210> 713
<211> 255
<212> DNA

<213> Ratte

<400> 713
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tgactgtgac aataat 255

<210> 714

<211> 255
<212> DNA
<213> Ratte

<400> 714
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tggaaatttga gaaac 255

<210> 715

<211> 255
<212> DNA
<213> Ratte

<400> 715
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acaaatgaaa tttgaaggca cnccacccan acctacatgt ctggggccat ttttgtaaac 240
ccccctttaa agcnc 255

<210> 716

<211> 255
<212> DNA
<213> Ratte

<400> 716
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ggcaatgacc tcttc 255

<210> 717

<211> 255
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<400> 717
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aagtggtcctt ggtgt 255

<210> 718

<211> 255
<212> DNA
<213> Ratte

<400> 718
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gaaagcggggg ttcccttcc acttcttcaa gccccttcc agtgggtccc ggtttccagg 240
atgatctctc tgtct 255

<210> 719
<211> 197
<212> DNA
<213> Ratte

<400> 719
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ataaggctgaa aacaggctga gtgagacagt cagcaacact ggttttgttt cagttccctc 180
tgtggttccct gccttaa 197

<210> 720
<211> 255
<212> DNA
<213> Ratte

<400> 720
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cttcggccaa agatg 255

<210> 721
<211> 255
<212> DNA
<213> Ratte

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ccacagttcc taagc 255

<210> 722
<211> 255
<212> DNA
<213> Ratte

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aggttatatgt taactaaaca cttttcaaac taaagctcat tcttttaagga cccctctggag 180
accatatgaa tgggtgtgtt tgggtgtgtt tatattttact tatatccctga attctactta 240
attttggctc tctta 255

<210> 723
<211> 81
<212> DNA
<213> Ratte

<400> 723
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agccgaatta cagtttggagg t 81

<210> 724
<211> 149

<212> DNA
<213> Ratte

<400> 724
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aataaccaat aagaaatgaa gaccaaccac ccataataa aacctcacct tatcccttga 120
atccaaatct gacagcatgg aagatcaga 149

<210> 725
<211> 255
<212> DNA
<213> Ratte

<400> 725
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cgttgtttta atctggacaa aagcctaact cctggcatca ggatgcatac gtgactcaag 180
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cactcttcct gtggc 255

<210> 726
<211> 255
<212> DNA
<213> Ratte

<400> 726
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cttttgcct gtcaa 255

<210> 727
<211> 255
<212> DNA
<213> Ratte

<400> 727
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<210> 728
<211> 255
<212> DNA
<213> Ratte

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tgttctagca cttcc 255

<210> 729
<211> 255
<212> DNA
<213> Ratte

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cttagttcca tacat 255

<210> 730
<211> 255
<212> DNA
<213> Ratte

<400> 730
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<212> DNA
<213> Ratte

<400> 731
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acccaacaan aaganggngc annngnggn caaacngcct ngggnrrgg gaggaaanga 180
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gnccctgncc annn 255

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<211> 255
<212> DNA
<213> Ratte

<400> 732
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ggccaccaag catattgcac atcacagaga gagagagaaa catttgtca tctcagtaag 180
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cgtgtataaa ataaa 255

<210> 733
<211> 255
<212> DNA
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<400> 733
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agaaggactg tatctggact ggactgagac acaagtggaa gagccccgac tatctccag 180
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aatgtgactt tggat 255

<210> 734
<211> 255
<212> DNA
<213> Ratte

<400> 734
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atgacacaaat gaggacaatc agcgaggggc acatgaacct caggaagaat cgtggaccac 180
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<210> 735
<211> 255
<212> DNA
<213> Ratte

<400> 735
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gggcctccaag cccctcaggc cggcgagcag ccctggcgctg ttccggaccc tgcagagctt 180
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agctaaaaat tgacg 255

<210> 736
<211> 255
<212> DNA
<213> Ratte

<400> 736
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acccttaact aactg 255

<210> 737
<211> 255
<212> DNA
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<400> 737
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ccgccccaaac atagaacggc caacaaaatg acaaacgccc aggctgcata gataacctcca 180
tattgtgtg caggcttcca tgcccaaaaa gcaaggccag tggcagtgac tgccaaagat 240
aacccaagta agaag 255

<210> 738
<211> 255
<212> DNA
<213> Ratte

<400> 738
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aagaaaagtgt tcgaa 255

<210> 739
<211> 227
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<213> Ratte

<400> 739
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ttttaaaact cctcttgcgt agctgcccag tagggataa ttggcacagc tttccaaag 180
aacctaattcc aaaccaggca tggccagca cccctggtaa tccttagt 227

<210> 740
<211> 255
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<213> Ratte

<400> 740
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<210> 741
<211> 255
<212> DNA
<213> Ratte

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cacagtttgc catgtgggtg gacgcggtca tctttgtctt cagcttggag gatgagatca 180
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tcccatattgt gctgg 255

<210> 742
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<212> DNA
<213> Ratte

<400> 742
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gtccgggtggg ccgagctggg tttttttttt tttttttttt cagttataggg tggtgatatc 240
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<210> 743
<211> 218
<212> DNA
<213> Ratte

<400> 743
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cgcttggta agcctgtcag gtattcccgcc cgcttctctt catcaaaggat gaggatgagc 180
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<210> 744
<211> 175
<212> DNA
<213> Ratte

<400> 744
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aacatttgtat gttactgcaaa ctttttcagg tggatgtcg gaagggtggca ctttgtatca 120
cccttttaatt cccgataaaag tggatgtcg ttttacatcgcc actcacgtga ctatg 175

<210> 745
<211> 255
<212> DNA
<213> Ratte

<400> 745
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aaaaaaaacta tagtc 255

<210> 746
<211> 255
<212> DNA
<213> Ratte

<400> 746
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tccactccag ccctc 255

<210> 747
<211> 255
<212> DNA
<213> Ratte

<400> 747
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acttctaccc ccacc 255

<210> 748
<211> 255
<212> DNA
<213> Ratte

<400> 748
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tggcttacag agtaaacgga cagttatatta tggaaggact tgcgtcttagc tttctttca 180
caatgggagg cttaggtttc ataatcctgg accgatccaa cgcaccaa atacaaaaac 240
tcaataggtt ttttcc 255

<210> 749
<211> 255
<212> DNA
<213> Ratte

<400> 749
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cgactaaatc cttacgc当地 gtggacacc accggcgtgc cccaccatgt cagacgc当地 180
agtggacacc agtcccgaga tcaccaccaa ggacttgaag gagaagaagg aagttgtgg 240
ggaggcagag aatgg 255

<210> 750
<211> 255
<212> DNA
<213> Ratte

<400> 750
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tcttttaacg ttacacagaa ttagagattt ctgtgaattt ttttttaatt tggaaatccgg 180
attaaagtgaa aaggcagttggg agtgaagctt tacaaatattt acattactat gtcattgaca 240
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<210> 751
<211> 255
<212> DNA
<213> Ratte

<400> 751 actccgttca cctccctcctc aagactggca acgaaggagg gtttttattta tacgaacagt 60 tggcacataa ggcatacggg ctggctggga agctggcagg ctccggatcg attacaatgc 120 agaacatcg 9 agctatgtca agctacatct tcatagtgaa atatgagttt ccttttgttg 180 tcaaggcg 10 tt aatgaacatc gaagatacga atgggctgg gtatctgaac ggcgactatc 240 tggcccttct 11 ggtgt 255

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<211> 255

<212> DNA

<213> Ratte

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<210> 753

<211> 255

<212> DNA

<213> Ratte

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<210> 754

<211> 255

<212> DNA

<213> Ratte

<400> 754 acaagctttt tttttttttt tttttttttt ttgtgggtca acctttgacc ttatttcatg 60 tcctgcctn ccacccnagta aagtcaaata caaggctact acccaaagca gaaaccccag 120 tccctatcct anactcctcc tgtgagccna aaatatataa agtgctggtg tgtaatatgg 180 ggaaggccna acggactnag aaccccaccc ctggacccca tcaggaggag gagcccttgc 240 anaaaaaang gcagg 255

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<210> 756

218

<212> DNA

<213> Ratte

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ttccggaaagg cccac 255

<210> 758
<211> 255
<212> DNA
<213> Ratte

<400> 758
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gactntacag aangcanaa ntggaccaac anccttggtn ttentttann gngnnaacca 180
tacnggntgt aachananaca a gcanngcnag gnathnannn ncccagnathn ctatctttt 240
taaaccacaag nnntn 255

<210> 759
<211> 255
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<213> Ratte

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atcttcattt tagtt 255

<210> 760
<211> 255
<212> DNA
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<400> 760
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ttcattttag ttcaag 255

<210> 761
<211> 255
<212> DNA
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<400> 761
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aagggtatcg tcagc 255

<210> 762

<211> 255
<212> DNA
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actctaggca tggtt 255

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<212> DNA
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ccngnccgaa ntctg 255

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gggagcccccg gcttt 255

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actgnaaaca ctcan 255

<210> 767
<211> 255
<212> DNA
<213> Ratte

<400> 767
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<210> 768

<211> 255

<212> DNA

<213> Ratte

<400> 768
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<211> 255

<212> DNA

<213> Ratte

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<210> 770

<211> 255

<212> DNA

<213> Ratte

<400> 770
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<210> 771

<211> 255

<212> DNA

<213> Ratte

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<210> 772

<211> 255

<212> DNA

<213> Ratte

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<210> 773
<211> 255
<212> DNA
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<400> 773
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<210> 774
<211> 255
<212> DNA
<213> Ratte

<400> 774
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<210> 775
<211> 255
<212> DNA
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<400> 775
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<210> 776
<211> 255
<212> DNA
<213> Ratte

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agggtgtgtt gcgctttgtt gtggcctatg gcttccgcaa catccagaac ctcgtgcaga 180
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gcttgaatgg aggggg 255

<210> 777
<211> 255
<212> DNA
<213> Ratte

<400> 777
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tttagcagcta tccatggtaa ttctttgttg tttcttgcattt aaaataatgg gcttccgtat 180
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gatcttattta caaat 255

<210> 778

<211> 255
<212> DNA
<213> Ratte

<400> 778
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agccatatta ctctccatgt acttcattaa tctccatcat gtatgccaaag cctgacacat 180
gtgacagaga agacaatgtg gcttgctccct ttttgaatct aaagataatg catgttttac 240
agtacctcgcc cgccg 255

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<211> 255
<212> DNA
<213> Ratte

<400> 779
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tgaaggaatg agacagatgt tgctcacaga acagcttct aagcaacaaa gtaatgtatgt 180
cagtaaaccg agaaaacgtc cccagaataa aaaatggcag gtgctggaaa aacgatggcc 240
agagactctc aggac 255

<210> 780
<211> 255
<212> DNA
<213> Ratte

<400> 780
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ctgcncagca atatg 255

<210> 781
<211> 255
<212> DNA
<213> Ratte

<400> 781
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aaaggctgtg tgaacttagat ttcataaggaa ccagggtttgt aacaatgttta acagttccat 120
agagaaccac aaatgcctaa catagcatct gaggctgtat ttgagaagtt tattcccaagt 180
tccacgaact ccagaggaaa cattaacaca atatgaaaag acgaaagaaa gaaagaaaaga 240
aagaaagaaa gaaag 255

<210> 782
<211> 255
<212> DNA
<213> Ratte

<400> 782
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atcggtatcc gccatccaa catcatctgt gactgttgca agaaacatgg gcttcgtgac 120
atgcgttggc agtgcctgtt ctgctttgac tatgatctct gcacgcagg ctacatgcac 180
aacaaacatgtt accttaccca tgccttcgag cgctatgaga catctcactc tgcggccggtt 240
acgctgagtc cccga 255

<210> 783
<211> 121
<212> DNA
<213> Ratte

<400> 783
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tctaaggaag gaaggaaagg aagatagaag aaaggagggaa gtcagtcttg 120
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<210> 784
<211> 255
<212> DNA
<213> Ratte

<400> 784
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cgctgttccc cagatctagt gtgttctgaa aatggagaac ctgcctgttt tggcttctca 180
acagaagctg cccacaggag gcaggacagt gcttaggtca ttcatgtatgta ctgatttcgt 240
gatcagacta cnngt 255

<210> 785
<211> 255
<212> DNA
<213> Ratte

<400> 785
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gttagcatcaa acatttccag agaacaata tccagccacc agccacagat gagagggAAC 180
actccaattt ctaccacaaac taacagagag accttaacca caatatagca gacgccccagc 240
aagcgacgag accta 255

<210> 786
<211> 255
<212> DNA
<213> Ratte

<400> 786
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atgaaccctt gcactcacca tgactccct tgaaggctgg ttcttccagc tatgtttgtat 180
gttgcctctgc acaggctctg ggacctatgg gatggggatg acatcataact cagtagggca 240
agttttttata gtatg 255

<210> 787
<211> 255
<212> DNA
<213> Ratte

<400> 787
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ctccctgccc aggagctcag ctgcgtctg agggctgggt gtgaccatgt ctgcctccgg 240
ctgcgtgggag aagct 255

<210> 788
<211> 157
<212> DNA
<213> Ratte

<400> 788
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tccggatccc aaaggcaatg gtgtaaacgt caaatct 157

<210> 789

<211> 255
<212> DNA
<213> Ratte

<400> 789
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cccacacagg gaagatgccg tgtggacttg aaggcagaga tcagaacaat gtatctacaa 240
gccaaggaaat gccaa 255

<210> 790
<211> 127
<212> DNA
<213> Ratte

<400> 790
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ccaaacttag ctgataagtt gctgtcaaga ctgggagtt ctaccacaga gagaagccct 120
ggagagc 127

<210> 791
<211> 255
<212> DNA
<213> Ratte

<400> 791
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gctgaacaaa tggaaaaaggc tgaagaagag agtcggtagt aaaaacagttt cccagccaag 120
atccccagca gaggggacga aacgggtccct gcctcccagc aacccttcgac acagtttctt 180
ccagacacag ccttccttctt ctcatccttgc tcacctnctc tttctactcc taagttctgg 240
ctcacgggca gntga 255

<210> 792
<211> 255
<212> DNA
<213> Ratte

<400> 792
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ctctgttaaa ttccgttcaa ttccctcata gaggataagg ctgtatccctt ggataaatcc 180
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gtgtccacag taattt 255

<210> 793
<211> 255
<212> DNA
<213> Ratte

<400> 793
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atgccggatt ggctactctt caccacagac attagcagat cagtcttcaa aaataaaagaa 240
aggaagcaaa ggaga 255

<210> 794
<211> 255
<212> DNA
<213> Ratte

<400> 794
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agtgcagagc cccaccacca ggtcggaat gaaaagtgtcc tcagtctccc cagatcgatg 120
ggacaccatg acacccccagg catggactg ggccagctta cacgcctgca gagactcggt 180
cacagagcca atctggttca ctttgagcag gaggcagttt caggacttt cgccctgcagc 240
cttggcgatc cgctt 255

<210> 795
<211> 255
<212> DNA
<213> Ratte

<400> 795
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aaattgtctng ncttgaggaa aaattccctta aagcaaagga ngtaaaagaaga tacttgctga 120
agaagctnct ccagatccat gctctaactg aaggggaacc acaggctgoc gtccttccc 180
acagctccag tttgcccctg gcttatgttg ncaccagctc tgtggaaacc atccagggag 240
ccggggcccaag nactg 255

<210> 796
<211> 255
<212> DNA
<213> Ratte

<400> 796
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atacttgctt ctggatatac gcagctgact gccatgttct ttgtatgacta gtgataagca 120
ccattgagag ctgatccatc cttaggagaag ggtggatctc ttcttcctca catccttacc 180
tcttcttagc atcccaaatg cagggcatag agcaggagag aagcacttct catgccaccc 240
gtggctgttag gcacc 255

<210> 797
<211> 255
<212> DNA
<213> Ratte

<400> 797
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tggagaagac atgagctgggn gaagagcaaa ccctacatgc agatgtggac actggcctct 120
caaagagtggtt ngtgtttaga tgcctgcccc agcttagagct gggcagaggt gacaggggagc 180
ctagcctctg aggcttcaact ccagctttt gtttggcacc cgggtccctg caatgataat 240
gggcaccaga gccag 255

<210> 798
<211> 255
<212> DNA
<213> Ratte

<400> 798
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tctctggaa catcaccagg ttctcagtt tcaggtcaga catgtccagg tttccgcctt 120
tctctttgac agccgggtgt ttgcgcacaa gcagccaaacc cacgtgagag aagaaaaagc 180
cacggggga gtttgtgaggg tcggcagttt gtctctgaga acttgggtt ggccgcgggtga 240
tcccgccccc attcg 255

<210> 799
<211> 255
<212> DNA
<213> Ratte

<400> 799
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agcttgcataag aaaaa 255

<210> 800
<211> 255
<212> DNA
<213> Ratte

<400> 800
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aaggccccctt cattgcaacc tgaatgaatg aagcaacaag agtaagtttc tttcaatcg 120
taatatgtca gtgacgttac tgtccagaca tgtgttaaca ttaacacgag taatagatgg 180
tcttacaaat tctcgaaaaa tgtaaatcat ccaatttcaa aacgttacag aatagtctat 240
tggattttgc aactg 255

<210> 801
<211> 255
<212> DNA
<213> Ratte

<400> 801
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gccccanagg gtttcccttct tcacccaggg ccaagataac tgtctntccc anacggagac 180
aggnncctn atgaancncn nccancnnn anaaccgtct tanagnchcn gtacchnaggn 240
ccnngccctna angga 255

<210> 802
<211> 255
<212> DNA
<213> Ratte

<400> 802
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tcagtggctc tcatgaattt cccctcaaca aagtaaaaag tctcctcaat ggaacatttt 120
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agcttgagaa agagattgtc gagcaagcgg atnaggacag cattgcagac cgnccanaga 240
gcaaccgcaa aacng 255

<210> 803
<211> 255
<212> DNA
<213> Ratte

<400> 803
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ancatcattt aagaaaggcc caanagtang atgctgtttc ttttaaaaata atttanaata 120
tattaactnt cctaaggcag attttgtgtg aggccgtgnt gaataggtan ctgntnccgn 180
tgccaaagaa cggcgcttgn aaggnnctgn ctgntctgna canttgangc ggnnggtaaa 240
tcccnlnagg cacnc 255

<210> 804
<211> 114
<212> DNA
<213> Ratte

<400> 804
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atcctggaaa ggagatcacc tggaaacact ttgtgcagta ttacctggcc cgag 114

<210> 805
<211> 255
<212> DNA
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<400> 805

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ttggaaatat tgtctcangc ttgttgaatg ngtgtggnt nttnannnt ntgnctnngn 180
nnnnangatt ttagngatnc gtgcctta ncgagatnng nttncntggg tcttanntg 240
naccgaaatt ancca 255

<210> 806
<211> 255
<212> DNA
<213> Ratte

<400> 806
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anacnatatn acgaatggac gccttcaaaa atgtcccac acagnccang gtggcctacc 120
ggnaactgggt catntgtgcg gatttgtatc ctacaggttt gggtttctt ggagacccc 180
ctgggctggaa aacaggcgtc tagaaacgca tctgtctggg cagctatggg tgaagtgacc 240
ttagagctgg gcacc 255

<210> 807
<211> 255
<212> DNA
<213> Ratte

<400> 807
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cacttaaatt caccaaagtt cagcagtccca ggcagctggg aggacaccca acttncaaac 180
tggatcccag agcggaaagaa gttgagggtg aaggtagggcag acatggaca gaagagcact 240
ttccacgtga gtc 255

<210> 808
<211> 255
<212> DNA
<213> Ratte

<400> 808
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agatncaggc caacc 255

<210> 809
<211> 255
<212> DNA
<213> Ratte

<400> 809
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cagggcatat cccag 255

<210> 810
<211> 255
<212> DNA
<213> Ratte

<400> 810
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aaatttngncn tntga

<210> 811
<211> 255
<212> DNA
<213> Ratte

<400> 811
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gtgttaatc ctata 255

<210> 812
<211> 255
<212> DNA
<213> Ratte

<400> 812
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tttattaaa tcaag 255

<210> 813
<211> 175
<212> DNA
<213> Ratte

<400> 813
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aacacgtcat gcagacgggt tctgggtttt ctcacagggt gtaaggctca ggctgtccat 120
tcagggtagg agggataaaag gagaagatgt ggtcaacttc gtgtgctaag gacgt 175

<210> 814
<211> 255
<212> DNA
<213> Ratte

<400> 814
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agtttgttagg ccataaaagaa nggctggang ttatggagcc gagctgaccc tttatttctt 240
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<210> 815
<211> 255
<212> DNA
<213> Ratte

<400> 815
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aaggagaaga aggttg 255

<210> 816
<211> 255
<212> DNA
<213> Ratte

<400> 816
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gcctaaagaac ggtgcttggaa agggggctgtc tggctctgggc agttggaggt ggagggtaaa 240
tccccgtgagg tcaag 255

<210> 817
<211> 255
<212> DNA
<213> Ratte

<400> 817
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cttctgggtt ggtgc 255

<210> 818
<211> 255
<212> DNA
<213> Ratte

<400> 818
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ccagcaaggaa gacaa 255

<210> 819
<211> 255
<212> DNA
<213> Ratte

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gttacaagcc ataccttaat tatttcagac nataaaaaaa aatgaacaga aacagaaaaat 180
caaacttttca tctcatgntc ttttcccta gaaaattaaa ctaagaatcaa aaggcatgg 240
taaaggcaat angnt 255

<210> 820
<211> 255
<212> DNA
<213> Ratte

<400> 820
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atgagtggagg cctcg 255

<210> 821
<211> 255
<212> DNA
<213> Ratte

<400> 821
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ccgatgggc atcattggct ggctcctgac aacatgcacg tccaatgttg ctgcctccaa 180
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gaacatagag ccagc 255

<210> 822
<211> 255
<212> DNA
<213> Ratte

<400> 822
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gc>ctggag gtgttacttg gtgtggccac aagctataa gctggagaaa cccacctctg 120
gagatgtca gtaggaagct gaactgttct ggcttcaagct ggattcgaaa gtaagtttt 180
atagatttgt tctgtgagag actttcttcc gca>ttaggac gaccacgggt ggggttccag 240
gaccagaatg ccccc 255

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actgttntcn gnnttcaacta tctgacagaa cctcataagc agcacccana tcctgttaatt 240
gtctcctggg ctagg 255

<210> 824
<211> 255
<212> DNA
<213> Ratte

<400> 824
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ttgggactgn gatctccaga acctgtcaat ctcagattct octctggagt ttctccaggg 180
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ctctgcctcc agtct 255

<210> 825
<211> 255
<212> DNA
<213> Ratte

<400> 825
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cttcagagag atgtt 255

<210> 826
<211> 255
<212> DNA
<213> Ratte

<400> 826
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ctttggccctc cagtc 255

<210> 827
<211> 255
<212> DNA
<213> Ratte

<400> 827
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gaatgtcttg atcttattca aagttttagt tctcttttt agttactaca atactgataa 180
acaggatata ctttatatgg atcagatagc caggatataa ttcttgatg tgaatacttt 240
cattaaagca aaaga 255

<210> 828
<211> 255
<212> DNA
<213> Ratte

<400> 828
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cacaggttgt tcgaaatgtct gctctttttcc ccctggggcca gttttcagag aacttacagc 180
cccatatcag cagctattcc gaggaggtaa tgccctgtct ctttacccac ctgaagtcaa 240
gtgcctatgg gaaac 255

<210> 829
<211> 255
<212> DNA
<213> Ratte

<400> 829
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ncgtgccttg nnctgaggc cnccctcanna gttntacgta atnctccctt nnttgcccn 180
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gnccctgctt conta 255

<210> 830
<211> 255
<212> DNA
<213> Ratte

<400> 830
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aacctgtggg tctcaagtgg agcggcaca agccaaggca ccagcgcatt tcagtagcag 240
gatataatcca tctta 255

<210> 831
<211> 255
<212> DNA
<213> Ratte

<400> 831
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acacatttcg atttttttca anattttaaa aacncaagga aatgaaana attttttttc 180
canaccactt tatctgaatc actgaaattha aatgaaaggct gngggctana ctcagggggcc 240
taaatngttt ttga 255

<210> 832
<211> 255
<212> DNA
<213> Ratte

<400> 832
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acaggattct agacccgttg ttcatctgttgc tctccgtttt tgaatacaag ggaaagcaga 180
gttctgacaa agtcagtaac caggccctgc agaagtcaag agaagtcaag gccaagttgg 240
aagaagccct gctcc 255

<210> 833

<211> 255

<212> DNA

<213> Ratte

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gttttagatc taagtgaaaa atggcctttt agtaaaatctc caattcttgt tcacattgtc 130
tgtccatgaa attcttttct ctgtcaaagg cganggtctc agtgccctccg tctgcgttgc 240
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<210> 834

<211> 255

<212> DNA

<213> Ratte

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<210> 835

<211> 255

<212> DNA

<213> Ratte

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agtctgttcc tnaggactgn ntaancatcc aggctatgcc tgccagagcc tacatgnntca 180
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<210> 836

<211> 255

<212> DNA

<213> Ratte

<400> 836

<210> 837

255

<212> DNA

<213> Ratte

<400> 837

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gagaccccan cttctcagcc tgactgtccc aatcagacgg aggctgcctc cagtacaca 240
gaagataacct ctgct 255

<210> 838
<211> 255
<212> DNA
<213> Ratte

<400> 838
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gcttgagcac tgnagnctt cacatttncc cgaatcactc anaaaaagnat aacattccct 180
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ggcttcac aggtt 255

<210> 839
<211> 255
<212> DNA
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<400> 839
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cttccaagtgc tgcgttaagta atagcaaathn ttccagatca ttggctgtga actttttgcc 240
tggaaattccct gagac 255

<210> 840
<211> 255
<212> DNA
<213> Ratte

<400> 840
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agcagcagca gcagctgaaa cgaggtgtttt ggtgatagga aggctgggcc tctggaggct 120
ctagaacggaa gatcaagtcc tggtaattta agagatcaga gcccctaaggaa aagagagtca 180
ngagaagaga ggctaaagtcc cagggaggcc agagatagga arngctggncg ataggaggaa 240
cccaaagagt caagt 255

<210> 841
<211> 112
<212> DNA
<213> Ratte

<400> 841
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aaagcanaaa ggtaaaggaa gaagagacac aagaggggan agacctgann gt 112

<210> 842
<211> 255
<212> DNA
<213> Ratte

<400> 842
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ctgtgcacag acacagcccc agacaccctg gccacaaaggc cagaggctcg agtagcagcc 180
cgggtgcatttggatgg tgctttggna gcagctagac agtggaaagtc agggaaaggcc 240
tcgggnaccac gtnac 255

<210> 843
<211> 255
<212> DNA

<213> Ratte

<400> 843
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gagaccaggaa actgcacagg gaattttcct aaatttcaaa cgacttttgg aatttcaacca 120
agggaaagttg ctttttgctg ctgcacagar tggaaactcc tttagaaaatg agatctcgcc 180
ccggctctgga ctgatccgag tcagggatt cacaatggca gagatcgagc actttgtaga 240
tccccactgag aaaga 255

<210> 844

<211> 255

<212> DNA

<213> Ratte

<400> 844
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ataccccana aggccaggaa gccccagata gggatgaggt atacacaatc cccaaacttc 180
tgaagcgaag tgagtcccca cagctgactc agatgttttgcattgcattg aacagccca 240
gcagattgcc atcaa 255

<210> 845

<211> 255

<212> DNA

<213> Ratte

<400> 845
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tctcttggaaat ctgtgggagc agccctctgag gcactagctc ctgatgaagt tccacggata 180
ggggccacca tatgggctgc ctttgcctca gctcattgn cgagtagcca actctgagtg 240
cctgctttcc catat 255

<210> 846

<211> 255

<212> DNA

<213> Ratte

<400> 846
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gntaaccnngn ngctnccatc ngncancaga cctaannntt tacagctaac ttacttnac 180
agnnnntngat naaatagnntn cnnnntacaa tgnncaaggn ttttagtcnc taaggaattt 240
aatgggnatc ttgaa 255

<210> 847

<211> 255

<212> DNA

<213> Ratte

<400> 847
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ttccctctttt aatgggtgctc tagatcacag ccatggccat gaagaccatt gccatagtca 180
cggagccaaa catggaggtg cacacagccca tgaccatgac catgctcatg gacatgggca 240
cttgcattcc cacga 255

<210> 848

<211> 255

<212> DNA

<213> Ratte

<400> 848
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gngtagtctc cccaaatgtcc tgcatttcac actgnccgcctt ccataacggc ccatcgtaa 180
angcgagtgc gctggatgtat accgtattca agatagaaca ggaaccatgg aagatccagg 240
tgctacactc atcag 255

<210> 849
<211> 255
<212> DNA
<213> Ratte

<400> 849
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gcctgacgag tagactggcag ctccctggag atggccgcgc tggcccttac ggtgaacgcc 120
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tctgtggaaag aagggaagga gaatcttctt cgggtttctg agagtggtgtt gttcaactgac 240
acaaattcaa tccctg 255

<210> 850
<211> 255
<212> DNA
<213> Ratte

<400> 850
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ctgaggcaaa caaatgcattt acaagataag taaaagccctt atgcanatgn atttctgttc 180
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ttttcttaatt tata 255

<210> 851
<211> 255
<212> DNA
<213> Ratte

<400> 851
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ggaggaaaga agataattgc tgaagaagct cctccagatc catgctctaa ctgaagggga 180
accacaggct gccgctccctt cccacagctc cagtttgcctt ctggctttatg gtgtcaccag 240
cctctgtggaa accac 255

<210> 852
<211> 255
<212> DNA
<213> Ratte

<400> 852
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gagaccagca tgcac 255

<210> 853
<211> 255
<212> DNA
<213> Ratte

<400> 853
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gaggttagtctt acatt 255

<210> 854
<211> 255
<212> DNA
<213> Ratte

<400> 854
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tcagaagtca tagttgtatgg caatcagatt gaggttgaaa tccctccgac cagagccgat 180
gtcatccatg cgtgtgacat tttggaggac gcagctattt cttatggat taacaacatt 240
cagatgactc tcccc 255

<210> 855
<211> 255
<212> DNA
<213> Ratte

<400> 855
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gaaaatgttg gtc当地gactt agcgaatctaa aaaataggat tgagtctgtta 240
aaaacgggtc tgctt 255

<210> 856
<211> 255
<212> DNA
<213> Ratte

<400> 856
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cttccactct ctgaaatagc gctctgcctt ctgcacgcag agctgatacc tggcacaca 180
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ggctctgttta ttaat 255

<210> 857
<211> 222
<212> DNA
<213> Ratte

<400> 857
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ngagatccaa atacagnatt caaaggtaat tggncctggng agggaggagg 180
ggatgatact ccagggntag ccatcttctt tcgggggtgt gt 222

<210> 858
<211> 255
<212> DNA
<213> Ratte

<400> 858
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atccagagat tccac 255

<210> 859
<211> 255
<212> DNA
<213> Ratte

<400> 859
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gagagtgact cttaggcagat cttttacttc ttgtgtttga atctgtctt cacctttgtg 180
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<210> 860

<211> 255

<212> DNA

<213> Ratte

<400> 860
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atatctgaag gtgac 255

<210> 861

<211> 255

<212> DNA

<213> Ratte

<400> 861
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tttaggancta gngcctnana anctgctncc acagattnca naragggctt agctgaggnc 180
agnaaaaacac aaggcanggg ccctgaagcg gngctgncaa aagcctcnnga agctaccgtn 240
tgnccnach atagc 255

<210> 862

<211> 153

<212> DNA

<213> Ratte

<400> 862
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cagacctgtat ggactctgccc ttgaaggctgt ccaacctgtt cagcacgtcc cagaccctcc 120
ggactctctgg ctatcgcccc ttgtttccct cct 153

<210> 863

<211> 134

<212> DNA

<213> Ratte

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tttggctctgt tagt 134

<210> 864

<211> 255

<212> DNA

<213> Ratte

<400> 864
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ttctttatgg atttg 255

<210> 865
<211> 209
<212> DNA
<213> Ratte

<400> 865
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<210> 866
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<212> DNA
<213> Ratte

<400> 866
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<210> 867
<211> 255
<212> DNA
<213> Ratte

<400> 867
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ccaaaggcttctt gtcgcctgtg gtgcctaact acgacaacgt gcatcctaacc taccacaaag 180
agcccttcctt gcagcagctg aagggtttt ctgatgaagt gcagcagcag gcccagctct 240
ccaccatcccg cagct 255

<210> 868
<211> 255
<212> DNA
<213> Ratte

<400> 868
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<210> 869
<211> 255
<212> DNA
<213> Ratte

<400> 869
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tgcaaaagct gagattcaaa gaatgcattca agaaaaaagac catttcgaag actccatgaa 180
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caaaaatgac gcagg 255

<210> 870
<211> 255
<212> DNA
<213> Ratte

<400> 870
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gcaccgcattg gctgttctgg aagtaatttta acacactcat aatgggtgcag ttcttgggtt 120
atggagagag gggggccaca cagatgtcccc gaagtgtcac gttttcattt gatataggacg 180

cagtataact ttcaatggcg atctgttaagt ccagaacctg gtgcagaatc tctttgttca 240
atggaggccc gaagg 255

<210> 871
<211> 255
<212> DNA
<213> Ratte

<400> 871
acaaggcctg cttcttcgga gtcgtcatcg tctgaggtaa ggaggagccaa agcttttcca 60
tgtattcaat ttcataggag ttctgttagt ccagctctgg ctggcaagaa tcttttctgg 120
gtcttgccc ccttagggtca gtattctcca aggcaagggtg tgggtctggc tggccactga 180
gttgcttacc ctccgagggt gaattgaatt tggtctcatt tacaaagtta gataggtctg 240
agggctgcgg gaaat 255

<210> 872
<211> 255
<212> DNA
<213> Ratte

<400> 872
accttgnntt gatcatttcc acagcacatt tctccctccag aaacgcgaaa aacacaagcg 60
tgtgggttct gcatttttaa ggataagaga gagaaagagg ttgggtatag taggacaggt 120
tgtcagaaga gatgtcgcta tggtcacgag gggccgggtt cacctgctat tgcacgccc 180
tccctcagtt ccactgcctt tatgtccccct cctctctctt gtttttaactg ttacacatac 240
agtaatacctt gaata 255

<210> 873
<211> 255
<212> DNA
<213> Ratte

<400> 873
acataaaagg accccataca tcatgctggt aaaataggac attcagaatg cacacacttc 60
tgtttttctt cttatgttat aggttagattt ttaatgttaa gcatttttat tttgttat 120
actccatttttaa taacttaata gtcttggatt taaatttaca atttgccctg tttggttat 180
tgttttaattt tggaaaggat aatttggaaatg taactgaaat aatggaaatg gaatttatac 240
tctgcattttt tata 255

<210> 874
<211> 238
<212> DNA
<213> Ratte

<400> 874
actactaaga aatgggacaa gtcactgagg acttcagcgg ctgggggtccc catcccagat 60
aagtccaccc cccacccacca ccacacacca cacacacagg gatgctctgg gaagcccgtc 120
tcgtcaccaa ggacctaccc tagaccata agaagggcag ttgccactgg agctgcctga 180
ggtaggacca ggaaacccca cttagtgtnc ctgccccggc ggccgctcga aagccgaa 238

<210> 875
<211> 255
<212> DNA
<213> Ratte

<400> 875
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aagaagtggc tacaggagca gaggtggycac atccgcyygc ggccatgtgtt agagcagttt 120
tggagttcccc tagaaaaatag catcatcnnc gagctttnat ccctnctngt tgggtggaccc 180
cacttgatcc caagactctg gcctttaacc ctaagaagaa gaattatgag cggcttcaga 240
aagctctggta tagtg 255

<210> 876
<211> 255

<212> DNA
<213> Ratte

<400> 876
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ggtcctgcattt tggragtatgt tcctgatcgct cacgtttctgc cactccccc gcaacaagga 120
atccatccgg atctcgagaca cctccctgttag cacttagtag ctctagaatcg agctgtttta 180
gttgtccctatg catgtcacca actccctttt accgatgttag atcaccttggaa atgctagaac 240
cccttggaaatg tgcta 255

<210> 877
<211> 254
<212> DNA
<213> Ratte

<400> 877
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tttggcagca gcttttcagc ttcttccccc ctgcgcgcctt cagcagcccc gctgtatctca 120
ttttccctgtta gtttctgtcg tgcagctgac agcttttgcc ctgtgtttttt ccgtgtttt 180
tctctgttttca aagtttctcg ttcttccacgtt cccgtgtttt ctgcgcacaca 240
agtcccaama ttct 254

<210> 878
<211> 254
<212> DNA
<213> Ratte

<400> 878
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aggctcagaa ctccagcmat ggcgnnaac tccttcagyc ttcttaagcc aggagtctca 120
gggctgtccg gaggcagctc tgcataatggg ggtcgctctt gcctgttaca cactgctcca 180
cgaatttagtg aggttttgc taccacctca gtttttttcc cagccagcac tgcacacacg 240
aggaccccaa aact 254

<210> 879
<211> 255
<212> DNA
<213> Ratte

<400> 879
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ggaaatgggt gtggcttaccc ccacctgttt tcmcggtgtma camgcctgaa gggctgttta 120
gggcttgata cagggtcatt tggagaatgt tgcaccatga ctcaggactc aacctggcat 180
gcagccaccc aggccatcc cacacatgtt tggacatgtt agacagacac ctgccattgc 240
ctacacgctt ccctg 255

<210> 880
<211> 255
<212> DNA
<213> Ratte

<400> 880
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accacggcgm cmcaemcysc mycgnncan nncccanngg ccacargygc tccaggcaca 120
gtgtcaagtc ttctctgtgg cccgtaaagaa agggacccac agtaaactga ccatgtgtca 180
tggtggccccc aggcactctg gggctgtatgg ttcttagtata agataaggct gcctcagacg 240
ttcttgccaa cccaa 255

<210> 881
<211> 254
<212> DNA
<213> Ratte

<400> 881
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taaaaaamrc agawgarawt gcaannnnngc nccnccaccn ncnnnnrrnaa aagagttgcc 120
cgcatggccg ttcctcttc cgaataggcc agaatggcc ttaaggacct tctcaggtgc 180
tcctcattga agtctgggtgc ttgcctacc aaggatgcca gtgccatggg tacctgcatac 240
tttactcttg caaa 254

<210> 882
<211> 255
<212> DNA
<213> Ratte

<400> 882
accaggaccgc tgctgcagtt tcctttgtca cgaattttac tataattttat gtttaagatgg 60
gctatcctcg cccggccagkg gnnaaacaat gngagcgcgg cccctacgct tcttactgccc 120
atggaaaggaa aacctcagcc acagcaggac agcttaatgc atcttttaat accaactctt 180
tttcacatga aatacccgcc tgaatcatcc aaatcagctt ctccatttaa tcttgctgag 240
aaaccaaaga ctgtg 255

<210> 883
<211> 255
<212> DNA
<213> Ratte

<400> 883
tacaccttagg gcagctcgag gcaagckatc tttaacaaga tctcctccag ccatccgtag 60
cggtctgcac ctggaagtag ttctgatcgc tcacgttctg ccactcctcc agcaacaagg 120
aatcattctg gatctcggac acctcctgtt gcacttagta gctctagaat gagctgtttt 180
agtcgtccta gcatgtcacc aactcctttt gaccgatgtt gatcacctgg aatgctagaa 240
cccttggaa gtgtc 255

<210> 884
<211> 255
<212> DNA
<213> Ratte

<400> 884
acctcttgcct ttatcagcct gccatggcca atccccacagg gaacssgagg gaaggaggat 60
gttggctgas aaasmmsgaga gatasamaca gaagagggggg agtgaatggc cccagtgggc 120
tgtcttattt caaagtggtt gtgtatgtt cttatactac atcttatataag agatattaag 180
gcctctgag ttaaagaaaac tsyccctatc ccgtgtgtt cactcatgtt tgtaaaaatt 240
gttccatgct aacat 255

<210> 885
<211> 220
<212> DNA
<213> Ratte

<400> 885
actgtccaca cacctggawg acgtgcggcg ccagaacatc gamaagaaaa ctgagaagat 60
cctgagagag ttcccttmtt homatnanga ccagtatggt gtctccctt tcaacagcat 120
gcgccatgag attgagggca cggngcctcc gcagcachnh tgctctggcg caaggtgccc 180
ctggatgaac gcatcatctt ctccggaaac cttttccagt 220